NACOmatic

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Kindle-DX Index; by AptID Use "Menu", then "Goto Page 09W => DCA => IAD

GENERAL INFORMATION This Airport/Facility Directory is a Civil Flight Information Publication published and distributed every eight weeks by the FAA

Department of Transportation, National Aeronautical Navigation Services, Silver Spring, Maryland 20910. It is designed fo

This directory contains all open to the public airports, seaplane bases and heliports, military facilities, and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally, this directory contains communications data

Military data contained within this publication is provided by the National Geospatial-Intelligence Agency and is intended to provide reference data for military and/or joint civil/military airports. Not all military data contained in this publication is

CORRECTIONS, COMMENTS, AND/OR PROCUREMENT

use with Aeronautical Charts covering the conterminous United States, Puerto Rico and the Virgin Islands.

soon as possible to the nearest FAA facility, either in person or by reverse charge telephone call. FOR AIRPORT SUPPLEMENT REVISIONS FORM VISIT WEB SITE: http://nfdc.faa.gov/portal/airportchanges.do FAA, Aeronautical Information Services, ATO-R, Rm. 626 800 Independence Ave., SW

CRITICAL information such as equipment malfunction, abnormal field conditions, hazards to flight, etc., should be reported as

navigational facilities and certain special notices and procedures.

Washington, DC 20591 Telephone 1-866-295-8236

applicable to civil users.

Fax 202-267-5322

Email 9-ATOR-HQ-AIS-AIRPORTCHANGES@FAA.GOV

NOTICE: Changes must be received by the Aeronautical Information Services as soon as possible but not later than the "cut-off" dates listed below to assure publication on the desired effective date.

	Airport Information	Airspace Information*
Effective Date	Cut-off date	Cut-off date
23 Sep 10	11 Aug 10	22 Jul 10
18 Nov 10	6 Oct 10	16 Sep 10
13 Jan 11	1 Dec 10	11 Nov 10
10 Mar 11	26 Jan 11	6 Jan 11
5 May 11	23 Mar 11	3 Mar 11
30 Jun 11	18 May 11	28 Apr 11

^{*}Including changes to preferred routes and graphic depictions on charts.

FOR CHARTING ERRORS CONTACT:

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1305 East West Highway

Silver Spring, MD 20910-3281

Telephone 1-800-626-3677

Email 9-AMC-Aerochart@faa.gov

Frequently asked questions (FAQs) are answered on our website at http://aeronav.faa.gov.

See the FAQs prior to contact via toll free number.

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Fax 301-436-6829

or any authorized chart agent.

New or Changed Information—To alert users of new information or changes to information from the previous issue, a vertical

line will be portrayed in the outside margin and extending the full length of the new and/or revised data. This will not apply to the front cover or the airport/facility directory listing.

This Airport/Facility Directory comprises part of the following sections of the United States Aeronautical Information Publication (AIP): GEN, ENR and AD.

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GENERAL INFORMATION

ABBREVIATIONS

The following abbreviations/acronyms are those commonly used within this Directory. Other abbreviations/acronyms m be found in the Legend and are not duplicated below. The abbreviations presented are intended to represent grammatic variations of the basic form. (Example-"req" may mean "request", "requesting", "requested", or "requests"). Army Air Field byd bevond AAF

Airbase C Commercial Circuit (Telephone) AB CGAF Coast Guard Air Facility abv ahove ACC Air Combat Command: Area Control CGAS Coast Guard Air Station

Center CIV Civil

acft aircraft clsd closed

ADCC Air Defense Control Center comd command

approach end rwy CONUS Continental United States AFR

CSTMS AFB Customs

Air Force Base

AFHP Air Force Heliport ctc contact

airfield control afld ctl

AFOD US Army Flight Operations Detachment dalgt daylight

AFRC Armed Forces Reserve Center/Air Force Dec December

Reserve Command DIAP DoD Instrument Approach Procedure

Automated Flight Service Station DoD **AFSS** Department of Defense Agriculture DSN Defense Switching Network (Telephon AG A-GEAR

Arresting Gear dsplcd displaced durn duration ΔGI above ground level AHP Army heliport eff effective

ALS Approach Light System emerg emergency

alt altitude FOR End of Runway AMC Air Mobility Command ETA Estimated Time of Arrival

Air National Guard Station ETD Estimated Time of Departure ANGS approach exc except anch

April Apr extd extend APU Auxiliary Power Unit FRO fixed-base operator

ARR Air Reserve Base Feb February

arpt airport fld field

Air Reserve Station FLIP Flight Information Publication ARS AS Air Station flt flight

ASDE-X Airport Surface Detection Equipmentfollow flw

Fri Model X Friday ASU Aircraft Starting Unit

Flight Service Station ATC Air Traffic Control GΑ glide angle

ATCT Airport Traffic Control Tower GCA Ground Controlled Approach

Aug August GS glide slope

ΔΠΙΜ All Up Weight (gross weight) haz hazard

available ΗQ Headquarters

avhl bcn heacon

below

blo

CONTINUED ON NEXT PAGE

nni

NS ARTMT Instrument Approach Procedure Noise Abatement NSTD nonstandard

ICAO International Civil Aviation Organization IFR Instrument Flight Rules ntc notice

II S Instrument Landing System ohen observation Inner Marker Oct

IM IMG Immigration OL F

increase opr operate, operator, operational indefinite ago operations

incr

intensity

OTS out of service

invof ovrn

in the vicinity of

IMC Instrument Meteorological Conditions PAEW

personnel and equipment working January lan pat pattern

overrun

Jet Aircraft Starting Unit JASU p-line power line

indef ints

Joint Operational Support Airlift Center

Joint Oil Analysis Program

Joint Reserve Base

Local Airport Advisory

Land and Hold Short Operations

Compass locator at Middle Marker ILS

Compass locator at Outer Marker ILS

Marine Corps Auxiliary Landing Field

Military Area Control Center

Marine Corps Air Facility

Marine Corps Air Station

Pilot-to-Metro voice call

Middle Marker of ILS

Maintenance Period

mean sea level

Naval Air Depot

Naval Air Facility

Naval Air Station

Naval Outlying Field

night

November

Microwave Landing System

minimum safe altitude warning

Naval Air Development Center

Naval Air Engineering Center

Naval Air Engineering Station

Naval Auxiliary Landing Field

Navy Air Logistics Office

Naval Air Warfare Center Naval Air Weapons Station

Naval Air Logistics Control Office

Naval Auxiliary Air Station

Marine Corps Base

July

June

Knots

nounds

landing

lighted

lights

Localizer

limited

March

medium

military

minute

Monday

hr

ΙΔΡ

IOAP

IRR

hul

lun

Κt LAA

lhs

Ida

lgtd

lgts LMM

LOC

LOM

MACC

MCAF

MCALE

MCAS

MCB

med

Mil

min

MIS

MM

Mon

MP

MSL

MSAW

NAAS

NADO

NAEC

NAES

NALCO

NALO NALE

NAS

NAWC

NAWS ngt

NOLF

Nov

NAF

NADEP

MFTRO

Mar

ltd

LAHSO

JOSAC

hour

October

PMSV

POI

PPR

PRM

PTD

rea

RAMCC

rgt tfc

RON

rar

retd

rwv

Sat

SELE

Sen

SFΔ

cfc

SFRA

SOAP

SOF

SPR

SR

std

Sun

SVC

tfc

thld

Thu

tkf

tmprv

tran

Tue

twr

twv

UC

USA

USAF

USCG

USN

VFR

VIP

VMC

Wed

wx

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RSRS

Pilot-to-Metro Service

Petrol, Oils and Lubricants

non precision instrument

Outlying Field

prior permission required Precision Runway Monitoring

Pilot to Dispatcher Regional Air Movement Control Center request right traffic

Remain Overnight require restricted

reduced same runway separation runwav Saturday Sentember Single Frequency Approach surface

Strategic Expeditionary Landing Field Special Flight Rules Area Spectrometric Oil Analysis Program Supervisor of Flying Seaplane Base

sunrise

sunset

Sunday

service

threshold

Thursday

take-off temporary

transient

Tuesday

tower

taxiwav

Under Construction

United States Army

United States Navy

formerly AUTOVON)

Visual Flight Rules

Wednesday

weather

Very Important Person

United States Air Force

United States Coast Guard

Defense Switching Network (telephone,

Visual Meteorological Conditions

traffic

standard

arpt not visible from twr and are required to ctc twr.

All bearings and radials are magnetic unless otherwise specified.
All mileages are nautical unless otherwise noted.
All times are Coordinated Universal Time (UTC) except as noted.
All times are Coordinated Universal Time (UTC) except as noted.
All elevations are in feet above/below Mean Sea Level (MSL) unless otherwise noted.
The horizontal reference datum of this publication is North American Datum of 1983 (NAD83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

10 SKETC	H LEGEND
runways/landing areas	radio aids to navigation
Hard Surfaced	VORTAC
Metal Surface	VOR/DME \(\bigcap \) NDB
Sod, Gravel, etc	TACAN NDB/DME
Light Plane,	MISCELLANEOUS AERONAUTICAL FEATURES
Closed	Airport Beacon
Helicopter Landings Area	Wind Cone
Displaced Threshold 0	Tetrahedron
Taxiway, Apron and Stopways	
, ,	APPROACH LIGHTING SYSTEMS
MISCELLANEOUS BASE AND CULTURAL FEATURES	A dot " • " portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting
Buildings	system e.g. (A) Negative symbology, e.g., (A) V indicates Pilot Controlled Lighting (PCL).
Power Lines	Runway Centerline Lighting
Fence	Approach Lighting System ALSF-2
Towers	Approach Lighting System ALSF-1
Tanks	Short Approach Lighting System SALS/SALSF
i	Simplified Short Approach Lighting System (SSALR) with RAIL
Oil Well	Medium Intensity Approach Lighting System (MALS and MALSF)/(SSALS and SSALF)
Smoke Stack	Medium Intensity Approach Lighting System (MALSR) and RAIL
Obstruction	Omnidirectional Approach Lighting System (ODALS)
Controlling Obstruction	Navy Parallel Row and Cross Bar
မြောင္းမြင္း Trees	Air Force Overrun
Populated Places	Standard Threshold Clearance provided Pulsating Visual Approach Slope Indicator
Cuts and Fills Fill	(PVASI) Visual Approach Slope Indicator with a threshold crossing height to accomodate long bodied or jumbo aircraft
Cliffs and Depressions	Tri-color Visual Approach Slope Indicator (TRCV)
Ditch	(V5) Approach Path Alignment Panel (APAP)
Hill	P Precision Approach Path Indicator (PAPI)

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LEGEND

This directory is a listing of data on record with the FAA on all open to the public airports, military facilities and selected

associated terminal control facilities, air route traffic control centers, and radio aids to navigation within the conterminous United States, Puerto Rico and the Virgin Islands. Joint civil/military and civil airports are listed alphabetically by state, associated city and airport name and cross-referenced by airport name. Military facilities are listed alphabetically by state and

private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally this listing contains data for

as under the airport with which they are associated.

official airport name and cross-referenced by associated city name. Navaids, flight service stations and remote communication

The listing of an open to the public airport in this directory merely indicates the airport operator's willingness to accommodate transient aircraft, and does not represent that the facility conforms with any Federal or local standards, or that it has been approved for use on the part of the general public. Military and private use facilities published in this directory are open to civil pilots only in an emergency or with prior permission. See Special Notice Section, Civil Use of Military Fields.

outlets that are associated with an airport, but with a different name, are listed alphabetically under their own name, as well

The information on obstructions is taken from reports submitted to the FAA. Obstruction data has not been verified in all cases. Pilots are cautioned that objects not indicated in this tabulation (or on the airports sketches and/or charts) may exist which can create a hazard to flight operation. Detailed specifics concerning services and facilities tabulated within this directory are contained in the Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

The legend items that follow explain in detail the contents of this Directory and are keyed to the circled numbers on the sample on the preceding pages. (1) CITY/AIRPORT NAME

the city name is different from the airport name the city name will appear on the line above the airport name. Airports with the same associated city name will be listed alphabetically by airport name and will be separated by a dashed rule line. A solid rule line will separate all others. FAA approved helipads and seaplane landing areas associated with a land airport will be

separated by a dotted line. Military airports are listed alphabetically by state and official airport name.

Civil and joint civil/military airports and facilities in this directory are listed alphabetically by state and associated city. Where

Alternate names, if any, will be shown in parentheses.

(3) LOCATION IDENTIFIER

codes will only be published at joint civil/military, and military facilities. If two different military codes are assigned, both

differentiate them from the letter "O".

The location identifier is a three or four character FAA code followed by a four-character ICAO code assigned to airports. ICAO

(4) OPERATING AGENCY

Airports within this directory are classified into two categories, Military/Federal Government and Civil airports open to the general public, plus selected private use airports. The operating agency is shown for military, private use and joint civil/military airports. The operating agency is shown by an abbreviation as listed below. When an organization is a tenant, the abbreviation is enclosed in parenthesis. No classification indicates the airport is open to the general public with no military tenant.

codes will be shown with the primary operating agency's code listed first. These identifiers are used by ATC in lieu of the airport name in flight plans, flight strips and other written records and computer operations. Zeros will appear with a slash to

US Army MC Marine Corps Α AFRC Air Force Reserve Command N Navv ΑF US Air Force NAF Naval Air Facility ANG Air National Guard NAS Naval Air Station AR US Army Reserve NASA National Air and Space Administration

ARNG US Army National Guard US Civil Airport Wherein Permit Covers CG US Coast Guard Use by Transient Military Aircraft CIV/MIL PVT Joint Use Civil/Military Private Use Only (Closed to the Public) DND Department of National Defense Canada

(5) AIRPORT LOCATION

Airport location is expressed as distance and direction from the center of the associated city in nautical miles and cardinal

points, e.g., 4 NE. (6) TIME CONVERSION

Hours of operation of all facilities are expressed in Coordinated Universal Time (UTC) and shown as "Z" time. The directory

indicates the number of hours to be subtracted from UTC to obtain local standard time and local daylight saying time UTC-5(-4DT). The symbol ‡ indicates that during periods of Daylight Saving Time effective hours will be one hour earlier than shown. In those areas where daylight saving time is not observed the (-4DT) and ‡ will not be shown. Daylight saving time is in

effect from 0200 local time the second Sunday in March to 0200 local time the first Sunday in November. Canada and all U.S. Conterminous States observe daylight saving time except Arizona and Puerto Rico, and the Virgin Islands. If the state observes daylight saving time and the operating times are other than daylight saving times, the operating hours will include the dates, times and no ‡ symbol will be shown, i.e., April 15-Aug 31 0630-1700Z, Sep 1-Apr 14 0600-1700Z.

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GEOGRAPHIC POSITION OF AIRPORT—AIRPORT REFERENCE POINT (ARP)

Positions are shown as hemisphere, degrees, minutes and hundredths of a minute and represent the approximate geometric

center of all usable runway surfaces.

(10) AIRPORT SKETCH

(11) ELEVATION

(13)

80

100

115

Α

A+

A1 +

10011

(14) FUEL CODE

sketches will be added incrementally.

(12) ROTATING LIGHT BEACON

SERVICING—CIVIL S1: Minor airframe repairs.

FUFI

40°C.

47° C.

*(Fuel System Icing Inhibitor) **(Freeze Point) NOTE:

(15) OXYGEN—CIVIL OX 1 High Pressure

OX 2 Low Pressure

(16) TRAFFIC PATTERN ALTITUDE

minus 47°C.

FP** minus 50° C.

(8) CHARTS Charts refer to the Sectional Chart and Low and High Altitude Enroute Chart and panel on which the airport or facility is

(9) INSTRUMENT APPROACH PROCEDURES, AIRPORT DIAGRAMS

- Procedures. See the Special Notice Section of this directory, Civil Use of Military Fields and the Aeronautical Information
- diagram has been published. Airport diagrams are located in the back of each A/FD volume alphabetically by associated city
- and airport name.

AIRPORT REMARKS or MILITARY REMARKS segment of the airport entry.

S2: Minor airframe and minor powerplant repairs.

S3: Major airframe and minor powerplant repairs.

S4: Major airframe and major powerplant repairs.

Grade 80 gasoline (Red)

specification) (Purple)

Grade 100 gasoline (Green)

100LL gasoline (low lead) (Blue)

Grade 115 gasoline (115/145 military

Jet A, Kerosene, without FS-II*, FP** minus

Jet A, Kerosene, with FS-II*, FP** minus

Jet A-1, Kerosene, without FS-II*, FP**

Jet A-1, Kerosene with FS-II*, FP** minus

Jet B, Wide-cut, turbine fuel without FS-II*,

however, the grade/type and other octane rating will not be published.

- Manual 5-4-5 Instrument Approach Procedure Charts for additional information, AD indicates an airport for which an airport
- indicates an airport for which a prescribed DoD Instrument Approach Procedure has been published in the U.S. Terminal
- IAP indicates an airport for which a prescribed (Public Use) FAA Instrument Approach Procedure has been published. DIAP

indicated as "00". When elevation is below sea level a minus "-" sign will precede the figure.

- depicted as GOMW and GOMC.
- located. Helicopter Chart locations will be indicated as COPTER. IFR Gulf of Mexico West and IFR Gulf of Mexico Central will be

The airport sketch, when provided, depicts the airport and related topographical information as seen from the air and should be used in conjunction with the text. It is intended as a guide for pilots in VFR conditions. Symbology that is not self-explanatory will be reflected in the sketch legend. The airport sketch will be oriented with True North at the top. Airport

The highest point of an airport's usable runways measured in feet from mean sea level. When elevation is sea level it will be

B indicates rotating beacon is available. Rotating beacons operate sunset to sunrise unless otherwise indicated in the

CODE

J4 (JP4)

J5 (JP5)

J8 (JP8)

18+100

MOGAS

Certain automobile gasoline may be used in specific aircraft engines if a FAA supplemental type certificate has been obtained. Automobile gasoline, which is to be used in aircraft engines, will be identified as "MOGAS",

Data shown on fuel availability represents the most recent information the publisher has been able to acquire. Because of a variety of factors, the fuel listed may not always be obtainable by transient civil pilots. Confirmation of

OX 3 High Pressure—Replacement Bottles

OX 4 Low Pressure—Replacement Bottles

availability of fuel should be made directly with fuel suppliers at locations where refueling is planned.

Traffic Pattern Altitude (TPA)—The first figure shown is TPA above mean sea level. The second figure in parentheses is TPA above airport elevation. Multiple TPA shall be shown as "TPA-See Remarks" and detailed information shall be shown in the Airport or Military Remarks Section. Traffic pattern data for USAF bases, USN facilities, and U.S. Army airports (including those on which ACC or U.S. Army is a tenant) that deviate from standard pattern altitudes shall be shown in Military Remarks.

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B+

S5: Major airframe repairs.

S7: Major powerplant repairs.

S8: Minor powerplant repairs.

FUFL

minus 50° C.

S6: Minor airframe and major powerplant repairs.

FS-11, FP** minus 46°C.

with FS-II*, FP** minus 47°C.

stability characteristics of JP-8.

(Jet Fuel Type Unknown)

as aircraft fuel.

Jet B, Wide-cut, turbine fuel with FS-II*, FP**

(JP-4 military specification) FP** minus

with FS-II*, FP** minus 47°C, with-fuel

additive package that improves thermo

Automobile gasoline which is to be used

(JP-5 military specification) Kerosene with

(JP-8 military specification) Jet A-1, Kerosene

(JP-8 military specification) Jet A-1, Kerosene

8

(17) AIRPORT OF ENTRY, LANDING RIGHTS, AND CUSTOMS USER FEE AIRPORTS U.S. CUSTOMS USER FEE AIRPORT-Private Aircraft operators are frequently required to pay the costs associated with

Agriculture Department requirements in the International Flight Information Manual for further details.)

AOE—Airport of Entry. A customs Airport of Entry where permission from U.S. Customs is not required to land. However, at least one hour advance notice of arrival is required.

LRA—Landing Rights Airport. Application for permission to land must be submitted in advance to U.S. Customs. At least one

hour advance notice of arrival is required. NOTE: Advance notice of arrival at both an AOE and LRA airport may be included in the flight plan when filed in Canada or

US Customs Air and Sea Ports, Inspectors and Agents Northeast Sector (New England and Atlantic States-ME to MD)

Southeast Sector (Atlantic States-DC, WV, VA to FL)

Southwest East Sector (OK and eastern TX)

Pacific Sector (WA, OR, CA, HI and AK)

Required

Νo.

Vehicles

1

1 or 2

2 or 3

3

3

contact airport manager prior to flight.

(19) NOTAM SERVICE

Airport

Index

C

D

Ε

will always carry an Index A.

Southwest West Sector (Western TX, NM and AZ)

(18) CERTIFICATED AIRPORT (14 CFR PART 139)

Central Sector (Interior of the US, including Gulf states—MS, AL, LA)

Type of Air Carrier Operation

Aircraft Length

≥126'. <159'

≥126', <159'

≥159', <200'

≥159'. <200'

_____ >200'

≥200′

<126'

<90'

≥90′.

Scheduled Air Carrier Aircraft with 31 or more passenger seats Unscheduled Air Carrier Aircraft with 31 or more passengers seats

Scheduled Air Carrier Aircraft with 10 to 30 passenger seats

Mexico, Where Flight Notification Service (ADCUS) is available the airport remark will indicate this service. This notice will also be treated as an application for permission to land in the case of an LRA. Although advance notice of arrival may be relayed to Customs through Mexico, Canada, and U.S. Communications facilities by flight plan, the aircraft operator is solely responsible for ensuring that Customs receives the notification. (See Customs, Immigration and Naturalization, Public Health and

Airports serving Department of Transportation certified carriers and certified under 14 CFR part 139 are indicated by the Class and the ARFF Index; e.g. Class I, ARFF Index A, which relates to the availability of crash, fire, rescue equipment. Class I airports can have an ARFF Index A through E, depending on the aircraft length and scheduled departures. Class II, III, and IV

> 14 CFR PART 139 CERTIFICATED AIRPORTS AIRPORT CLASSIFICATIONS

14 CFR-PART 139 CERTIFICATED AIRPORTS INDICES AND AIRCRAFT RESCUE AND FIRE FIGHTING EQUIPMENT REQUIREMENTS

Scheduled

Departures

≥1

≥5

<5

≥5

<5

<5

≥5

NOTE: The listing of ARFF index does not necessarily assure coverage for non-air carrier operations or at other than prescribed times for air carrier. ARFF Index Ltd.-indicates ARFF coverage may or may not be available, for information

All public use landing areas are provided NOTAM "D" (distant dissemination) and NOTAM "L" (local dissemination) service. Airport NOTAM file identifier is shown for individual airports, e.g. "NOTAM FILE IAD". See AIM, Basic Flight Information and

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> Greater Than; < Less Than; ≥ Equal or Greater Than; ≤ Equal or Less Than; H₂0-Water; DC-Dry Chemical.

customs processing.

Class I

Χ

Agent + Water for Foam 500#DC or HALON 1211

or 450#DC + 100 gal H₂O

Index A + 1500 gal H₂O

Index A + 3000 gal H₂O

Index A + 4000 gal H₂O

Index A + 6000 gal H₂O

407-975-1740

407-975-1780 407-975-1760

407-975-1840

407-975-1820

407-975-1800

Class II

Χ

Class III

Χ

Class IV

Х

ATC Procedures for detailed description of NOTAM's, Current NOTAMs are available from Flight Service Stations at

(PSP)-Pierced steel plank

(TURF)-Turf

Single wheel type landing gear (DC3), (C47), (F15), etc.

Two single wheels in tandem type landing gear (C130).

Two dual wheels in tandem type landing gear (B757,

Two dual wheels in tandem/dual wheel body gear type

Two dual wheels in tandem/two dual wheels in double tandem body gear type landing gear (B747, E4).

Complex dual wheel and quadruple wheel combination

Two dual wheels in tandem/two dual wheels in tandem body

Three dual wheels in tandem type landing gear (B777), etc.

Dual wheel gear two struts per side main gear type landing

Two triple wheels in tandem type landing gear (C17), etc.

Two dual wheels in tandem type landing gear (B707), etc.

Dual wheel type landing gear (P3, C9).

gear type landing gear (A340-600).

Dual wheel type landing gear (BE1900), (B737), (A319), etc.

(TRTD)-Treated

(WC)-Wire combed

(RFSC)-Rubberized friction seal coat

longest runway first. Direction, length, width, and lighting are shown for sea-lanes. The full dimensions of helipads are shown. e.g., 50X150. Runway data that requires clarification will be placed in the remarks section.

1-800-WX-BRIEF. Real time Military NOTAMs are available using the DoD Internet NOTAM Distribution System (DINS)

All airports not inspected by FAA will be identified by the note: Not insp. This indicates that the airport information has been

Runway information is shown on two lines. That information common to the entire runway is shown on the first line while information concerning the runway ends is shown on the second or following line. Runway direction, surface, length, width, weight bearing capacity, lighting, and slope, when available are shown for each runway. Multiple runways are shown with the

RUNWAY DESIGNATION

Runways are normally numbered in relation to their magnetic orientation rounded off to the nearest 10 degrees. Parallel runways can be designated L (left)/R (right)/C (center). Runways may be designated as Ultralight or assault strips. Assault

strips are shown by magnetic bearing.

provided by the owner or operator of the field.

www.notams.ics.mil. (20) FAA INSPECTION

(21) RUNWAY DATA

RIINWAY DIMENSIONS

Runway length and width are shown in feet. Length shown is runway end to end including displaced thresholds, but excluding those areas designed as overruns.

RUNWAY SURFACE AND LENGTH Runway lengths prefixed by the letter "H" indicate that the runways are hard surfaced (concrete, asphalt, or part

asphalt-concrete). If the runway length is not prefixed, the surface is sod, clay, etc. The runway surface composition is

indicated in parentheses after runway length as follows:

(GRVL)-Gravel, or cinders

(MATS)—Pierced steel planking.

landing mats, membranes

(PEM)—Part concrete, part asphalt (PFC)-Porous friction courses

RUNWAY WEIGHT BEARING CAPACITY

Runway strength data shown in this publication is derived from available information and is a realistic estimate of capability at

an average level of activity. It is not intended as a maximum allowable weight or as an operating limitation. Many airport

pavements are capable of supporting limited operations with gross weights in excess of the published figures. Permissible

NEW DESCRIPTION

landing gear (KC10).

gear (B52).

landing gear (C5).

operating weights, insofar as runway strengths are concerned, are a matter of agreement between the owner and user. When desiring to operate into any airport at weights in excess of those published in the publication, users should contact the airport

2.5

2T

2D

2D

2D/D1

2D/2D1

2D/2D2

3D

D2

management for permission. Runway strength figures are shown in thousand of pounds, with the last three figures being

omitted. Add 000 to figure following S, D, 2S, 2T, AUW, SWL, etc., for gross weight capacity. A blank space following the letter

designator is used to indicate the runway can sustain aircraft with this type landing gear, although definite runway weight

bearing capacity figures are not available, e.g., S, D. Applicable codes for typical gear configurations with S=Single, D=Dual,

(AFSC)—Aggregate friction seal coat

(ASPH)—Asphalt

(DIRT)-Dirt

(CONC)—Concrete

(GRVD)-Grooved

T=Triple and Q=Quadruple: CURRENT NEW

S S D

D Т

ST TRT DT TT

SBTT

None DDT TTT TT

TDT

AUW—All up weight. Maximum weight bearing capacity for any aircraft irrespective of landing gear configuration. SWL—Single Wheel Loading. (This includes information submitted in terms of Equivalent Single Wheel Loading (ESWL) and Single Isolated Wheel Loading).

runway. The PCN is for use in conjunction with an Aircraft Classification Number (ACN). Consult the Aircraft Flight Manual, Flight Information Handbook, or other appropriate source for ACN tables or charts. Currently, ACN data may not be available

RUNWAY LIGHTING Lights are in operation sunset to sunrise. Lighting available by prior arrangement only or operating part of the night and/or pilot controlled lighting with specific operating hours are indicated under airport or military remarks. At USN/USMC facilities

spacing does not meet FAA standards. Nonstandard runway lights, VASI, or any other system not listed below will be shown in airport remarks or military service. Temporary, emergency or limited runway edge lighting such as flares, smudge pots,

PSI-Pounds per square inch. PSI is the actual figure expressing maximum pounds per square inch runway will support, e.g., (SWL 000/PSI 535).

Omission of weight bearing capacity indicates information unknown.

The ACN/PCN System is the ICAO standard method of reporting pavement strength for pavements with bearing strengths

- greater than 12,500 pounds. The Pavement Classification Number (PCN) is established by an engineering assessment of the
- for all aircraft. If an ACN table or chart is available, the ACN can be calculated by taking into account the aircraft weight, the
- shown as a five-part code (e.g. PCN 80 R/B/W/T). Details of the coded format are as follows:
- pavement type, and the subgrade category. For runways that have been evaluated under the ACN/PCN system, the PCN will be
- (1) The PCN NUMBER—The reported PCN indicates that an aircraft with an ACN equal or less than the reported PCN

can operate on the pavement subject to any limitation on

- the tire pressure.
- (2) The type of pavement: R - Rigid
 - F Flexible
- (3) The pavement subgrade category:
- A High
 - B Medium
 - C Low
 - D Ultra-low
- NOTE: Prior permission from the airport controlling authority is required when the ACN of the aircraft exceeds the published
- PCN or aircraft tire pressure exceeds the published limits.
- lights are available only during airport hours of operation. Since obstructions are usually lighted, obstruction lighting is not included in this code. Unlighted obstructions on or surrounding an airport will be noted in airport or military remarks. Runway lights nonstandard (NSTD) are systems for which the light fixtures are not FAA approved L-800 series: color, intensity, or
- lanterns or portable runway lights will also be shown in airport remarks or military service. Types of lighting are shown with the runway or runway end they serve.
- NSTD-Light system fails to meet FAA standards. LIRL-Low Intensity Runway Lights. MIRL-Medium Intensity Runway Lights.
- HIRL—High Intensity Runway Lights. RAIL—Runway Alignment Indicator Lights.
- REIL—Runway End Identifier Lights.
- CL-Centerline Lights.
- TDZL-Touchdown Zone Lights.
- ODALS-Omni Directional Approach Lighting System.
- AF OVRN-Air Force Overrun 1000' Standard
- Approach Lighting System.

which they are tenants.

- LDIN-Lead-In Lighting System.
- MALS-Medium Intensity Approach Lighting System.
- MALSF-Medium Intensity Approach Lighting System with Sequenced Flashing Lights.
- MALSR-Medium Intensity Approach Lighting System with
- Runway Alignment Indicator Lights.

- NOTE: Civil ALSF2 may be operated as SSALR during favorable weather conditions. When runway edge lights are positioned
- more than 10 feet from the edge of the usable runway surface a remark will be added in the "Remarks" portion of the airport entry. This is applicable to Air Force, Air National Guard and Air Force Reserve Bases, and those joint civil/military airfields on

SSALS—Simplified Short Approach Lighting System. SSALF—Simplified Short Approach Lighting System with Sequenced Flashing Lights.

Sequenced Flashing Lights.

SALS—Short Approach Lighting System.

Flashing Lights.

SALSF—Short Approach Lighting System with Sequenced

Runway Alignment Indicator Lights.

quenced Flashing Lights, Category I, Configuration.

(4) The maximum tire pressure authorized for the pavement:

U — By experience of aircraft using the pavement

W - High, no limit

X — Medium, limited to 217 psi

Z - Very low, limited to 73 psi

Y - Low, limited to 145 psi

(5) Pavement evaluation method:

T — Technical evaluation

- SSALR—Simplified Short Approach Lighting System with
- ALSAF—High Intensity Approach Lighting System with
- ALSF1—High Intensity Approach Lighting System with Se-
- ALSF2-High Intensity Approach Lighting System with Se-

- quenced Flashing Lights, Category II, Configuration. SF—Sequenced Flashing Lights. OLS—Optical Landing System.
- WAVE-OFF.

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VISUAL GLIDESLOPE INDICATORS

P4R

PSIR

S2R

TRIR

V6I

V6R

V12

V16

Highest intensity available

Medium or lower intensity (Lower REIL or REIL-Off)

Lowest intensity available (Lower REIL or REIL-Off)

runwav

APAP on right side of runway

PVASI on right side of runway

TRCV on right side of runway

6-box VASI on left side of runway

6-box VASI on right side of runway

12-box VASI on both sides of runway

16-box VASI on both sides of runway

2-box SAVASI on right side of runway

4-identical light units placed on right side of

APAP—A system of panels, which may or may not be lighted, used for alignment of approach path.

PNIR

PVASI—Pulsating/steady burning visual approach slope indicator, normally a single light unit projecting two colors.

NOTE: Approach slope angle and threshold crossing height will be shown when available; i.e., -GA 3.5° TCH 37'. PILOT CONTROL OF AIRPORT LIGHTING

Available systems will be indicated in the airport or military remarks, e.g., ACTIVATE HIRL Rwy 07-25, MALSR Rwy 07, and

Where the airport is not served by an instrument approach procedure and/or has an independent type system of different specification installed by the airport sponsor, descriptions of the type lights, method of control, and operating frequency will be explained in clear text. See AIM, "Basic Flight Information and ATC Procedures," for detailed description of pilot control of airport **RUNWAY SLOPE** When available, runway slope data will only be provided for those airports with an approved FAA instrument approach procedure. Runway slope will be shown only when it is 0.3 percent or greater. On runways less than 8000 feet, the direction of the slope up will be indicated, e.g., 0.3% up NW. On runways 8000 feet or greater, the slope will be shown (up

RUNWAY END DATA Information pertaining to the runway approach end such as approach lights, touchdown zone lights, runway end identification lights, visual glideslope indicators, displaced thresholds, controlling obstruction, and right hand traffic pattern, will be shown on the specific runway end. "Rgt tfc"-Right traffic indicates right turns should be made on landing

LAND AND HOLD SHORT OPERATIONS (LAHSO) LAHSO is an acronym for "Land and Hold Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The

RUNWAY DECLARED DISTANCE INFORMATION TORA—Take-off Run Available. The length of runway declared available and suitable for the ground run of an aeroplane

Arresting gear is shown as it is located on the runway. The a-gear distance from the end of the appropriate runway (or into the overrun) is indicated in parentheses. A-Gear which has a bi-direction capability and can be utilized for emergency approach end engagement is indicated by a (B). The direction of engaging device is indicated by an arrow. Up to 15 minutes advance notice may be required for rigging A-Gear for approach and engagement. Airport listing may show availability of other than US Systems. This information is provided for emergency requirements only. Refer to current aircraft operating manuals for specific

TODA—Take-off Distance Available. The length of the take-off run available plus the length of the clearway, if provided. ASDA—Accelerate-Stop Distance Available. The length of the take-off run available plus the length of the stopway, if provided. LDA-Landing Distance Available. The length of runway which is declared available and suitable for the ground run of an

engagement weight and speed criteria based on aircraft structural restrictions and arresting system limitations. Following is a list of current systems referenced in this publication identified by both Air Force and Navy terminology:

PAPI—Precision Approach Path Indicator

PVASI on left side of runway

TRCV on left side of runway

2-box VASI on left side of runway

2-box VASI on right side of runway

4-box VASI on left side of runway

4-box VASI on right side of runway

VASI-Visual Approach Slope Indicator

SAVASI—Simplified Abbreviated Visual Approach Slope Indicator

2-box SAVASI on left side of runway

P2R

S2L

TRII

V2L

V2R

V4L

V4R

Key Mike 7 times within 5 seconds

5 times within 5 seconds

3 times within 5 seconds

and takeoff for specified runway end.

VASI Rwy 07-122.8.

take-off.

aeroplane landing.

(22) ARRESTING GEAR/SYSTEMS

TRCV—Tri-color visual approach slope indicator, normally a single light unit projecting three colors.

or down) on the runway end line, e.g., RWY 13: 0.3% up., RWY 21: Pole. Rgt tfc. 0.4% down.

Measured distance represents the available landing distance on the landing runway, in feet.

Aeronautical Information Manual contains specific details on hold-short operations and markings.

P4I P2L 2-identical light units placed on left side of 2-identical light units placed on right side of

4-identical light units placed on left side of

PNIL APAP on left side of runway

DESCRIPTION BAK-9 Rotary friction brake. Standard BAK-12 with 950 foot run out, 1-inch cable and 40,000 pound weight setting. Rotary BAK-12A

friction brake. E28 Rotary Hydraulic (Water Brake). M21 Rotary Hydraulic (Water Brake) Mobile.

The following device is used in conjunction with some aircraft arresting systems: A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system

DIRECTORY LEGEND

Extended BAK-12 with 1200 foot run, 11/4 inch Cable and 50,000 pounds weight setting. Rotary

F-5

requires up to five seconds to fully raise the cable.) A device that raises a hook cable out of a slot in the runway surface and is remotely positioned

for engagement by the tower on request. (In addition to personnel reaction time, the system

requires up to one and one-half seconds to fully raise the cable.)

UNI-DIRECTIONAL CABLE

TYPE DESCRIPTION

MB60

Textile brake—an emergency one-time use, modular braking system employing the tearing of specially woven textile straps to absorb the kinetic energy.

E5/E5-1/E5-3

Chain Type. At USN/USMC stations E-5 A-GEAR systems are rated, e.g., E-5 RATING-13R-1100 HW (DRY), 31L/R-1200 STD (WET). This rating is a function of the A-GEAR chain weight and

length and is used to determine the maximum aircraft engaging speed. A dry rating applies to a

stabilized surface (dry or wet) while a wet rating takes into account the amount (if any) of wet

overrun that is not capable of withstanding the aircraft weight. These ratings are published under Military Service.

(Water Brake)

AC: 115/200v, 3 phase, 90 kva, 0.8 pf, 4 wire DC: 28v, 1500 amp, 72 kw (with TR pack)

DC: 28v, 500 amp, 14 kw

DC: 28v, 500 amp, 15 kw

DC: 28v, 1500 amp, 45 kw, split bus

DC: 28v, 1500 amp, 45 kw, split bus

AC: 115/208v, 400 cycle, 3 phase, 37.5 kva, 0.8 pf, 108 amp, 4 wire

AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

FOREIGN CABLE TYPE US EQUIVALENT

DESCRIPTION Rotary Hydraulic)

44B-3H

CHAG Chain

DESCRIPTION

UNI-DIRECTIONAL BARRIER Web barrier between stanchions attached to a chain energy absorber.

TYPE MA-1A BAK-15 Web barrier between stanchions attached to an energy absorber (water squeezer, rotary friction,

chain). Designed for wing engagement.

NOTE: Landing short of the runway threshold on a runway with a BAK-15 in the underrun is a significant hazard. The barrier

in the down position still protrudes several inches above the underrun. Aircraft contact with the barrier short of the runway

threshold can cause damage to the barrier and substantial damage to the aircraft.

OTHER

TYPE EMAS

(23) MILITARY SERVICE Specific military services available at the airport are listed under this general heading. Remarks applicable to any military

12

BAK-12B

BAK-14

BI-DIRECTIONAL CABLE (B)

service are shown in the individual service listing. 24) JET AIRCRAFT STARTING UNITS (JASU) The numeral preceding the type of unit indicates the number of units available. The absence of the numeral indicates ten

or more units available. If the number of units is unknown, the number one will be shown. Absence of JASU designation indicates non-availability.

MD-3 MD-3A

The following is a list of current JASU systems referenced in this publication: USAF JASU (For variations in technical data, refer to T.O. 35-1-7.) **ELECTRICAL STARTING UNITS:** A/M32A-86 MC-1A

MD-3M

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Engineered Material Arresting System, located beyond the departure end of the runway, consisting of

high energy absorbing materials which will crush under the weight of an aircraft.

13 DIRECTORY LEGEND MD-4 AC: 120/208v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 175 amp, "WYE" neutral ground, 4 wire, 120v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 303 amp, "DELTA" 3 wire, 120v, 400 cycle, 1 phase, 62.5 kva. 0.8 pf. 520 amp. 2 wire AIR STARTING UNITS AM32-95 150 + -5 lb/min (2055 + -68 cfm) at 51 + -2 psia AM32A-95 150 + -5 lb/min @ 49 + -2 psia (35 + -2 psig) LASS 150 +/- 5 lb/min @ 49 +/- 2 psia 82 lb/min (1123 cfm) at 130° air inlet temp, 45 psia (min) air outlet press MA-1A MC-1 15 cfm, 3500 psia MC-1A 15 cfm, 3500 psia MC-2A 15 cfm, 200 psia MC-11 8,000 cu in cap, 4000 psig, 15 cfm COMBINED AIR AND ELECTRICAL STARTING UNITS: AC: 115/200v, 400 cycle, 3 phase, 30 kw gen DC: 28v, 700 amp AIR: 60 lb/min @ 40 psig @ sea level AM32A-60* AIR: 120 + -4 lb/min (1644 + -55 cfm) at 49 + -2 psiaAC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire, 120v, 1 phase, 25 kva DC: 28v, 500 amp, 15 kw

AM32A-60A AIR: 150 + -5 lb/min (2055 + -68 cfm at 51 + - psia

AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire

DC: 28v, 200 amp, 5.6 kw AIR: 130 lb/min, 50 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v. 200 amp. 5.6 kw

AM32A-60B*

electrical power available. USN JASU **ELECTRICAL STARTING UNITS:** NC-8A/A1 DC: 500 amp constant, 750 amp intermittent, 28v; AC: 60 kva @ .8 pf, 115/200v, 3 phase, 400 Hz.

*NOTE: During combined air and electrical loads, the pneumatic circuitry takes preference and will limit the amount of DC: 750 amp constant, 1000 amp intermittent, 28v;

AC: 90 kva, 115/200v, 3 phase, 400 Hz.

NC-10A/A1/B/C AIR STARTING UNITS: 120 lbs/min @ 45 psi. 204 lbs/min @ 56 psia.

GTC-85/GTE-85 MSU-200NAV/A/U47A-5 WELLS AIR START 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. Simultaneous multiple start capability. SYSTEM

COMBINED AIR AND ELECTRICAL STARTING UNITS: NCPP-105/RCPT 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. 700 amp, 28v DC. 120/208v, 400 Hz AC, 30 kva.

JASU (ARMY) 59B2-1B 28v, 7.5 kw, 280 amp. OTHER JASU

AC/DC 115/200v, 140 kva, 400 Hz, 3 phase, 28vDC, 1500 amp

DC 22-35v, 500 amp continuous 1100 amp intermittent DC 22-35v, 500 amp continuous 1100 amp intermittent soft start

AC 120/208v, 60 kva, 400 Hz, 3 phase DC 28v, 75 amp

28v 45kw 115-200v 15kw 380-800 Hz 1 phase 2 wire

AC 115/200v, 140 kva, 400 Hz, 3 phase AC 115/200v, 60 kva, 400 Hz, 3 phase

C-26-B, C-26-C 28v 45kw: Split Bus: 115-200v 15kw 380-800 Hz 1 phase 2 wire E3 DC 28v/10kw

AIR STARTING UNITS (OTHER): **A4** 40 psi/2 lb/sec (LPAS Mk12, Mk12L, Mk12A, Mk1, Mk2B)

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150 Air HP, 115 lb/min 50 psia

250 Air HP, 150 lb/min 75 psia

ASA 45.5 psig, 116.4 lb/min

AIR 112.5 lb/min, 47 psig

ELECTRICAL STARTING UNITS (DND):

ELECTRICAL STARTING UNITS (OTHER)

COMBINED AIR AND ELECTRICAL STARTING UNITS (DND)

USAF

AIR STARTING UNITS (DND):

CF12

CF13 CF14

CF15

CF16

CFA1

C - 26

MA-1

MA-2CARTRIDGE: MXU-4A

(25) FUEL—MILITARY

Fuel available through US Military Base supply, DESC Into-Plane Contracts and/or reciprocal agreement is listed first and is followed by (Mil). At commercial airports where Into-Plane contracts are in place, the name of the refueling agent is shown.

14

UXACEN. LPOX

HPOX

LHOX

NITROGEN:

Reimbursement (AIR) Card (currently issued by AVCARD) is the instrument to be used to obtain fuel under a DESC Into-Plane Contract and for NC purchases if the refueling agent at the commercial airport accepts the AVCARD. A current list of contract fuel locations is available online at www.desc.dla.mil/Static/ProductsAndServices.asp; click on the Commercial Airports

Military fuel should be used first if it is available. When military fuel cannot be obtained but Into-Plane contract fuel is available, Government aircraft must refuel with the contract fuel and applicable refueling agent to avoid any breach in contract terms and conditions. Fuel not available through the above is shown preceded by NC (no contract). When fuel is obtained from NC sources, local purchase procedures must be followed. The US Military Aircraft Identaplates DD Form 1896 (Jet Fuel), DD Form 1897 (Avgas) and AF Form 1245 (Avgas) are used at military installations only. The US Government Aviation Into-Plane

See legend item 14 for fuel code and description. (26) SUPPORTING FLUIDS AND SYSTEMS—MILITARY

CODE

ADI Anti-Detonation Injection Fluid-Reciprocating Engine Aircraft.

Single Point Refueling.

W WΔI SP

Water Thrust Augmentation-Jet Aircraft.

Low pressure oxygen servicing.

High pressure oxygen servicing.

Low and high pressure oxygen servicing.

Water-Alcohol Injection Type, Thrust Augmentation-Jet Aircraft. Air Compressors rated 3,000 PSI or more.

PRESAIR

De-Ice Anti-icing/De-icing/Defrosting Fluid (MIL-A-8243).

Liquid oxygen servicing. LOX **OXRB** Oxygen replacement bottles. (Maintained primarily at Naval stations for use in acft where oxygen can be

replenished only by replacement of cylinders.) ΩX Indicates oxygen servicing when type of servicing is unknown.

NOTE: Combinations of above items is used to indicate complete oxygen servicing available:

LHOXRB Low and high pressure oxygen servicing and replacement bottles:

Low pressure oxygen replacement bottles only, etc. **LPOXRB**

NOTE: Aircraft will be serviced with oxygen procured under military specifications only. Aircraft will not be serviced with medical oxygen.

LPNIT - Low pressure nitrogen servicing. HPNIT — High pressure nitrogen servicing.

LHNIT - Low and high pressure nitrogen servicing.

(27) OIL—MILITARY



GRADE, TYPE

CODE

US AVIATION OILS (MIL SPECS):

1065, Reciprocating Engine Oil (MIL-L-6082)

0 - 113

1100, Reciprocating Engine Oil (MIL-L-6082) 0 - 1170-117+ 1100, 0-117 plus cyclohexanone (MIL-L-6082)

1065, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III)

0 - 1230 - 128

1100, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type II)

1005, Jet Engine Oil (MIL-L-6081)

0 - 132

0 - 1331010, Jet Engine Oil (MIL-L-6081)

0 - 147None, MIL-L-6085A Lubricating Oil, Instrument, Synthetic

0 - 148None, MIL-L-7808 (Synthetic Base) Turbine Engine Oil 0 - 149None, Aircraft Turbine Engine Synthetic, 7.5c St

0 - 155None, MIL-L-6086C, Aircraft, Medium Grade 0 - 156None, MIL-L-23699 (Synthetic Base), Turboprop and Turboshaft Engines

JOAP/SOAP Joint Oil Analysis Program. JOAP support is furnished during normal duty hours, other times on request. (JOAP and SOAP programs provide essentially the same service, JOAP is now the standard joint service

supported program.)

(28) TRANSIENT ALERT (TRAN ALERT)—MILITARY



oxygen, etc.), debriefing to determine requirements for maintenance, minor maintenance, inspection and parking assistance of transient aircraft. Drag chute repack, specialized maintenance, or extensive repairs will be provided within the capabilities and priorities of the base. Delays can be anticipated after normal duty hours/holidays/weekends

TURN-AROUNDS during time periods when servicing or maintenance manpower is not available. In the case of airports not operated exclusively by US military, the servicing indicated by the remarks will not always be available for US military

regardless of the hours of transient maintenance operation. Pilots should not expect aircraft to be serviced for

watchman duties or telephone accessibility, but rather an attendant or operator on duty to provide at least minimum

aircraft. When transient alert services are not shown, facilities are unknown. NO PRIORITY BASIS—means that transient alert services will be provided only after all the requirements for mission/tactical assigned aircraft have been

(29) AIRPORT REMARKS

accomplished.

The Attendance Schedule is the months, days and hours the airport is actually attended. Airport attendance does not mean

Airport Remarks have been grouped in order of applicability. Airport remarks are limited to those items of information that are determined essential for operational use, i.e., conditions of a permanent or indefinite nature and conditions that will remain in

services (e.g., repairs, fuel, transportation).

effect for more than 30 days concerning aeronautical facilities, services, maintenance available, procedures or hazards, knowledge of which is essential for safe and efficient operation of aircraft, Information concerning permanent closing of a runway or taxiway will not be shown. A note "See Special Notices" shall be applied within this remarks section when a special notice applicable to the entry is contained in the Special Notices section of this publication. Parachute Jumping indicates parachute jumping areas associated with the airport. See Parachute Jumping Area section of this publication for additional Information. Landing Fee indicates landing charges for private or non-revenue producing aircraft. In addition, fees may be charged for

Note: Unless otherwise stated, remarks including runway ends refer to the runway's approach end.

planes that remain over a couple of hours and buy no services, or at major airline terminals for all aircraft.

(30) MILITARY REMARKS

applicable to civil users. The first group of remarks is applicable to the primary operator of the airport. Remarks applicable to a tenant on the airport are shown preceded by the tenant organization, i.e., (A) (AF) (N) (ANG), etc. Military airports operate 24 hours unless otherwise specified. Airport operating hours are listed first (airport operating hours will only be listed if they are different than the airport attended hours or if the attended hours are unavailable) followed by pertinent

Military Remarks published at a joint Civil/Military facility are remarks that are applicable to the Military. At Military Facilities all remarks will be published under the heading Military Remarks. Remarks contained in this section may not be

remarks in order of applicability. Remarks will include information on restrictions, hazards, traffic pattern, noise abatement, customs/agriculture/immigration, and miscellaneous information applicable to the Military.

Type of restrictions:

CLOSED: When designated closed, the airport is restricted from use by all aircraft unless stated otherwise. Any closure applying to specific type of aircraft or operation will be so stated. USN/USMC/USAF airports are considered closed during non-operating hours. Closed airports may be utilized during an emergency provided there is a safe landing area. OFFICIAL BUSINESS ONLY: The airfield is closed to all transient military aircraft for obtaining routine services such as

fueling, passenger drop off or pickup, practice approaches, parking, etc. The airfield may be used by aircrews and aircraft if official government business (including civilian) must be conducted on or near the airfield and prior permission is received from the airfield manager. AF OFFICIAL BUSINESS ONLY OR NAVY OFFICIAL BUSINESS ONLY: Indicates that the restriction applies only to service

indicated PRIOR PERMISSION REQUIRED (PPR): Airport is closed to transient aircraft unless approval for operation is obtained from the appropriate commander through Chief, Airfield Management or Airfield Operations Officer. Official Business or PPR does not preclude the use of US Military airports as an alternate for IFR flights. If a non-US military airport is used as a weather alternate and requires a PPR, the PPR must be requested and confirmed before the flight departs. The purpose of

PPR is to control volume and flow of traffic rather than to prohibit it. Prior permission is required for all aircraft requiring transient alert service outside the published transient alert duty hours. All aircraft carrying hazardous materials must

Note: OFFICIAL BUSINESS ONLY AND PPR restrictions are not applicable to Special Air Mission (SAM) or Special Air Resource (SPAR) aircraft providing person or persons on aboard are designated Code 6 or higher as explained in AFJMAN 11-213, AR 95-11, OPNAVINST 3722-8J. Official Business Only or PPR do not preclude the use of the airport as an alternate for IFR flights.

(31) WEATHER DATA SOURCES

Weather data sources will be listed alphabetically followed by their assigned frequencies and/or telephone number and hours of operation. ASOS—Automated Surface Observing System. Reports the same as an AWOS-3 plus precipitation identification and intensity,

and freezing rain occurrence (future enhancement). AWOS—Automated Weather Observing System

AWOS-A—reports altimeter setting (all other information is advisory only). AWOS-1—reports altimeter setting, wind data and usually temperature, dewpoint and density altitude.

AWOS-2—reports the same as AWOS-1 plus visibility.

AWOS-3—reports the same as AWOS-1 plus visibility and cloud/ceiling data. See AIM, Basic Flight Information and ATC Procedures for detailed description of AWOS.

obtain prior permission as outlined in AFJI 11-204, AR 95-27, OPNAVINST 3710.7.

LAWRS-Limited Aviation Weather Reporting Station where observers report cloud height, weather, obstructions to vision,

LLWAS—indicates a Low Level Wind Shear Alert System consisting of a center field and several field perimeter anemometers. SAWRS-identifies airports that have a Supplemental Aviation Weather Reporting Station available to pilots for current

is not the same as the airport name the call sign will be shown. Frequencies shall normally be shown in descending order

The FSS telephone nationwide is toll free 1-800-WX-BRIEF (1-800-992-7433). When the FSS is located on the field it will be indicated as "on arpt". Frequencies available at the FSS will follow in descending order. Remote Communications Outlet (RCO) providing service to the airport followed by the frequency and FSS RADIO name will be shown when available. FSS's provide information on airport conditions, radio aids and other facilities, and process flight plans. Airport Advisory Service (AAS) is provided on the CTAF by FSS's for select non-tower airports or airports where the tower is not in operation.

Aviation weather briefing service is provided by FSS specialists. Flight and weather briefing services are also available by

Remote Communications Outlet (RCO)-An unmanned air/ground communications facility that is remotely controlled and

Civil Communications Frequencies-Civil communications frequencies used in the FSS air/ground system are operated on

c. 123.6 is assigned as the airport advisory frequency at select non-tower locations. At airports with a tower, FSS may

HIWAS-See RADIO AIDS TO NAVIGATION

temperature and dewpoint (in most cases), surface wind, altimeter and pertinent remarks.

weather information. SWSL—Supplemental Weather Service Location providing current local weather information via radio and telephone.

TDWR—indicates airports that have Terminal Doppler Weather Radar. WSP-indicates airports that have Weather System Processor.

When the automated weather source is broadcast over an associated airport NAVAID frequency (see NAVAID line), it shall be indicated by a bold ASOS, AWOS, or HIWAS followed by the frequency, identifier and phone number, if available.



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be shown as CTAF/UNICOM 122.8.

calling the telephone numbers listed.

Airport terminal control facilities and radio communications associated with the airport shall be shown. When the call sign

with the primary frequency listed first. Frequencies will be listed, together with sectorization indicated by outbound radials, and hours of operation. Communications will be listed in sequence as follows: Single Frequency Approach (SFA), Common Traffic Advisory Frequency (CTAF), Automatic Terminal Information Service (ATIS)

and Aeronautical Advisory Stations (UNICOM) or (AUNICOM) along with their frequency is shown, where available, on the line following the heading "COMMUNICATIONS." When the CTAF and UNICOM frequencies are the same, the frequency will

(See AIM, Para 4-1-9 Traffic Advisory Practices at Airports Without Operating Control Towers or AC 90-42C.)

a. 122.0 is assigned as the Enroute Flight Advisory Service frequency at selected FSS RADIO outlets.

system should refer to this directory or appropriate charts to determine frequencies available at the FSS or remoted facility through which they wish to communicate. Emergency frequency 121.5 and 243.0 are available at all Flight Service Stations, most Towers, Approach Control and RADAR facilities.

provides UHF or VHF communications capability to extend the service range of an FSS.

provide airport advisories on the tower frequency when tower is closed.

that frequency. All radio aids to navigation (NAVAID) frequencies are transmit only.

d. 122.1 is the primary receive-only frequency at VOR's.

e. Some FSS's are assigned 50 kHz frequencies in the 122-126 MHz band (eg. 122.45). Pilots using the FSS A/G

b. 122.2 is assigned as a common enroute frequency.

122.0, 122.2, 123.6; emergency 121.5; plus receive-only on 122.1.

Frequencies published followed by the letter "T" or "R", indicate that the facility will only transmit or receive respectively on

TERMINAL SERVICES SFA—Single Frequency Approach.

CTAF-A program designed to get all vehicles and aircraft at airports without an operating control tower on a common

landline & data link communications and voice message within range of existing transmitters.

ATIS—A continuous broadcast of recorded non-control information in selected terminal areas. D-ATIS—Digital ATIS provides ATIS information in text form outside the standard reception range of conventional ATIS via

uncontrolled airports may contact ATC and FSS via VHF to a telephone connection to obtain an instrument clearance or close a VFR or IFR flight plan. They may also get an updated weather briefing prior to takeoff. Pilots will use four "key clicks" on the

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AUNICOM—Automated UNICOM is a computerized, command response system that provides automated weather, radio check capability and airport advisory information selected from an automated menu by microphone clicks.

UNICOM—A non-government air/ground radio communications facility which may provide airport information. PTD-Pilot to Dispatcher.

APP CON—Approach Control. The symbol (\mathbf{R}) indicates radar approach control.

TOWER-Control tower. GCA-Ground Control Approach System.

GND CON-Ground Control.

GCO-Ground Communication Outlet-An unstaffed, remotely controlled, ground/ground communications facility. Pilots at

PRE TAXLCI NC-Pre taxi clearance

VFR ADVSY SVC-VFR Advisory Service. Service provided by Non-Radar Approach Control.

CLNC DEL-Clearance Delivery.

Advisory Service for VFR aircraft (upon a workload basis) ctc APP CON.

COMD POST—Command Post followed by the operator call sign in parenthesis.

PMSV-Pilot-to-Metro Service call sign, frequency and hours of operation, when full service is other than continuous.

PMSV installations at which weather observation service is available shall be indicated, following the frequency and/or

hours of operation as "Wx obsn svc 1900-0000Z‡" or "other times" may be used when no specific time is given. PMSV

facilities manned by forecasters are considered "Full Service". PMSV facilities manned by weather observers are listed as "Limited Service".

OPS—Operations followed by the operator call sign in parenthesis.

DEP CON—Departure Control. The symbol (R) indicates radar departure control.

CON RANGE

FLT FLW-Flight Following MEDIVAC

NOTE: Communication frequencies followed by the letter "X" indicate frequency available on request.

(33) AIRSPACE

Information concerning Class B, C, and part-time D and E surface area airspace shall be published with effective times.

Class D and E surface area airspace that is continuous as established by Rulemaking Docket will not be shown.

CLASS B-Radar Sequencing and Separation Service for all aircraft in CLASS B airspace. CLASS C—Separation between IFR and VFR aircraft and sequencing of VFR arrivals to the primary airport.

TRSA—Radar Sequencing and Separation Service for participating VFR Aircraft within a Terminal Radar Service Area.

Class C, D, and E airspace described in this publication is that airspace usually consisting of a 5 NM radius core surface

area that begins at the surface and extends upward to an altitude above the airport elevation (charted in MSL for Class C

and Class D). Class E surface airspace normally extends from the surface up to but not including the overlying controlled

airspace. When part-time Class C or Class D airspace defaults to Class E, the core surface area becomes Class E. This will be

formatted as:

AIRSPACE: CLASS C svc "times" ctc APP CON other times CLASS E:

AIRSPACE: CLASS D svc "times" other times CLASS E.

When a part-time Class C, Class D or Class E surface area defaults to Class G, the core surface area becomes Class G up

to, but not including, the overlying controlled airspace. Normally, the overlying controlled airspace is Class E airspace

beginning at either 700' or 1200' AGL. This will be formatted as: AIRSPACE: CLASS C svc "times" ctc APP CON other times CLASS G, with CLASS E 700' (or 1200') AGL & abv:

AIRSPACE: CLASS D svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv:

AIRSPACE: CLASS E svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv.

NOTE: AIRSPACE SVC "TIMES" INCLUDE ALL ASSOCIATED ARRIVAL EXTENSIONS. Surface area arrival extensions for instrument approach

procedures become part of the primary core surface area. These extensions may be either Class D or Class E airspace and

are effective concurrent with the times of the primary core surface area. For example, when a part-time Class C, Class D or

Class E surface area defaults to Class G, the associated arrival extensions will default to Class G at the same time. When

a part-time Class C or Class D surface area defaults to Class E, the arrival extensions will remain in effect as Class E

NOTE: CLASS E AIRSPACE EXTENDING UPWARD FROM 700 FEET OR MORE ABOVE THE SURFACE. DESIGNATED IN CONJUNCTION WITH AN AIRPORT WITH AN

APPROVED INSTRUMENT PROCEDURE.

Class E 700' AGL (shown as magenta vignette on sectional charts) and 1200' AGL (blue vignette) areas are designated

when necessary to provide controlled airspace for transitioning to/from the terminal and enroute environments. Unless

otherwise specified, these 700'/1200' AGL Class E airspace areas remain in effect continuously, regardless of airport

operating hours or surface area status. These transition areas should not be confused with surface areas or arrival

extensions.

(See Chapter 3, AIRSPACE, in the Aeronautical Information Manual for further details)

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(34) RADIO AIDS TO NAVIGATION

The Airport/Facility Directory lists, by facility name, all Radio Aids to Navigation that appear on National Aeronautical

Navigation Services Visual or IFR Aeronautical Charts and those upon which the FAA has approved an Instrument Approach

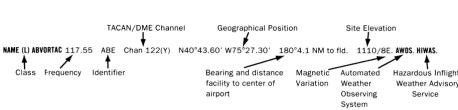
Procedure, with exception of selected TACANs. Military TACAN information will be published for Military facilities contained in this publication. All VOR, VORTAC, TACAN, ILS and MLS equipment in the National Airspace System has an automatic monitoring and shutdown feature in the event of malfunction. Unmonitored, as used in this publication, for any navigational

will be shown as "NOTAM FILE IAD" and will be listed on the Radio Aids to Navigation line. When two or more NAVAIDS are listed and the NOTAM file identifier is different from that shown on the Radio Aids to Navigation line, it will be shown with the NAVAID listing. NOTAM file identifiers for ILSs and its components (e.g., NDB (LOM) are the same as the associated airports and are not repeated. Automated Surface Observing System (ASOS), Automated Weather Observing System (AWOS), and

aid, means that monitoring personnel cannot observe the malfunction or shutdown signal. The NAVAID NOTAM file identifier

Hazardous Inflight Weather Advisory Service (HIWAS) will be shown when this service is broadcast over selected NAVAIDs. NAVAID information is tabulated as indicated in the following sample:

Terminal Procedures. Only part-time hours of operation will be shown.



VOR unusable 020°-060° byd 26 NM blo 3,500′ Restriction within the normal altitude/range of the navigational aid (See primary alphabetical listing for restrictions on VORTAC and VOR/DME).

Note: Those DME channel numbers with a (Y) suffix require TACAN to be placed in the "Y" mode to receive distance information

HIWAS—Hazardous Inflight Weather Advisory Service is a continuous broadcast of inflight weather advisories including

summarized SIGMETs, convective SIGMETs, AIRMETs and urgent PIREPs. HIWAS is presently broadcast over selected VOR's ASR/PAR—Indicates that Surveillance (ASR) or Precision (PAR) radar instrument approach minimums are published in the U.S.

RADIO CLASS DESIGNATIONS

VOR/DME/TACAN Standard Service Volume (SSV) Classifications

SSV Class	Aititudes	Distance
(T) Terminal	1000' to 12.000'	(NM) 25
(L) Low Altitude	1000 to 12,000 1000' to 18.000'	40
(H) High Altitude	1000' to 14,500'	40
(,g	14,500' to 18,000'	100
	18,000' to 45,000'	130
	45,000' to 60,000'	100
NOTE: Additionally (II) for	William and the Alband Albanda Tongarian and the feeting	Maria and Alabarata Allegania

NOTE: Additionally, (H) facilities provide (L) and (T) service volume and (L) facilities provide (T) service. Altitudes are with respect to the station's site elevation. Coverage is not available in a cone of airspace directly above the facility. CONTINUED ON NEXT PAGE

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CONTINUED FROM PRECEDING PAGE

The term VOR is, operationally, a general term covering the VHF omnidirectional bearing type of facility without regard to the fact that the power, the frequency protected service volume, the equipment configuration, and operational requirements may

different locations.
Automatic Weather Broadcast.
Direction Finding Service.
UHF standard (TACAN compatible) distance measuring equipment.
UHF standard (TACAN compatible) distance measuring equipment that require TACAN to be placed in the "Y" mode to receive DME.
Glide slope.
Non-directional radio beacon (homing), power 50 watts to less than 2,000 watts (50 NM a all altitudes).
Non-directional radio beacon (homing), power 2,000 watts or more (75 NM at all altitudes)
Non-directional radio beacons providing automatic transcribed weather service.
Instrument Landing System (voice, where available, on localizer channel).
Inner marker.
Interim Standard Microwave Landing System.
Localizer Directional Aid.
Compass locator station when installed at middle marker site (15 NM at all altitudes).
Compass locator station when installed at outer marker site (15 NM at all altitudes).
Non-directional radio beacon (homing) power less than 50 watts (25 NM at all altitudes).
Microwave Landing System.
Middle marker.
Outer marker.
Simultaneous range homing signal and/or voice.
Non-directional radio beacon not authorized for IFR or ATC. Provides automatic weather broadcasts.
Simplified Direction Facility.
UHF navigational facility-omnidirectional course and distance information.
VHF navigational facility-omnidirectional course only.
Collocated VOR navigational facility and UHF standard distance measuring equipment.

VORTAC Collocated VOR and TACAN navigational facilities.

W Without voice on radio facility frequency.

ILS FACILITY PEFORMANCE CLASSIFICATION CODES

Codes define the ability of an ILS to support autoland operations. The two portions of the code represent Official Category

and farthest point along a Category I, II, or III approach that the Localizer meets Category III structure tolerances.

runway threshold, B - 3500 ft prior to runway threshold, C - glide angle dependent but generally 750-1000 ft prior to threshold, T - runway threshold, D - 3000 ft after runway threshold, and E - 2000 ft prior to stop end of runway.

> II S/DMF Rwy 18. Class IIE. 108 5 I_ORI Chan 22 LOM HERNY NDR

Farthest point of satisfactory Category III Localizer performance for Category I, II, or III approaches: A - 4 NM prior to

ILS Facility Performance Classification Code

Official Category: I, II, or III; the lowest minima on published or unpublished procedures supported by the ILS.

FREQUENCY PAIRING PLAN AND MLS CHANNELING TACAN NI S VHE TACAN FREGUENCY

109 45

109.55

2 IM

CHANNEL

636

638

640

642

644

646

648

660

662

664

666

668

670

672

674

676

678

680

682

684

686

688

690

692

694

696

698

TACAN

CHANNEL

25X

25Y

26X

26Y

27X

27Y

28X

28Y

29X

29Y

30X

CHANNEL

31 V

32Y

33Y

43Y

44Y

45Y

46Y

47Y

48Y

49Y

50Y

51Y

52Y

53Y

54Y

55Y

56Y

80Y

81Y

82Y

83Y

84Y

85Y

86Y

87Y

MLS

CHANNEL

544

502

546

548

504

550

552

506

VHF

FREQUENCY

114 15

114.25

114.35

114.45

114.55

114.65

114.75

114.85

114.95

115.05

115.15

115.25

115 35

115.45

115.55

115.65

115.75

115.85

115.95

116.05

116.15

116.25

116.35

116 45

116.55

116 65

116 75

116.85

116.95

117 05

117.15

117.25

VHF

FREQUENCY

108.80

108.85

108.90

108 95

109 00

109.05

109.10

109.15

109.20

109 25

109.30

TACAN

CHANNEL

88Y

89Y

90Y

91Y

92Y

93Y

94Y

95Y

96Y

97Y

98Y

aay

1009

101Y

102Y

103Y

104Y

105Y

106Y

107Y

108Y

109Y

110Y

111Y

112Y

113Y

114Y

115Y

116Y

117Y

118Y

119Y

2 IM

CHANNEL

556

508

558

560

510

562

564

512

514	109.50	32X	582	110.15	38Y	650
516	109.70	34X	584	110.25	39Y	652
518	109.90	36X	586	110.35	40Y	654
520	110.10	38X	588	110.45	41Y	656
522	110.30	40X	590	110.55	42Y	658

592

594

596

598

600

602

604

606

608

610

612

614

616

618

620

622

624

626

628

630

632

634

TACAN

CHANNEL

19Y

20X

20Y

21 X

21Y

22X

22Y

23X

23Y

24X

578 109.95 36Y 580 110.05 37Y

110.65

110.75

110.85

110.95

111.05

111.15

111.25

111.35

111.45

111.55

111.65

111.75

111.85

111 95

113.35

113.45

113.55

113 65

113.75

113.85

113 95

114.05

FREQUENCY PAIRING PLAN AND MLS CHANNELING

VHF

FREGUENCY

108.25

108.30

108.35

108 40

108.45

108.50

108.55

108 60

108.65

108 70

NE. 23 SEP 2010 to 18 NOV 2010

35Y

576 26X 109.85

34Y

508 108.90

CHANNEL

568

570

109.10 28X

109.65 108.70 24X 574 109.75

20X 108.50 22X 572

CHANNEL

18X

42X

44X

46X

48X

50X

52X

54X

56X

17Y

18Y

19Y

20Y

21Y

22Y

23Y

24Y

25Y

26Y

27Y

28Y

291

30Y

2 IM

CHANNEL

540

500

542

ILS information is tabulated as indicated in the following sample:

504 506

510

VHE

FREQUENCY

108.10

108.30

512 109.30 30X 109.50 32X

110.30

110 50

110.70

110.90

111.10

111.30

111.50

111.70

111.90

108.05

108.15

108 25

108.35

108.45

108 55

108 65

108.75

108.85

108 95

109.05

109 15

109 25

109.35

VHF

FREGUENCY

134.5

134 55

135.4

135 45

135.5

135.55

108.00

108.05

108.10

108 15

514 522 524

NI S

CHANNEL

500

502

558

lowing is a list of paired VOR/ILS VHF frequencies with TACAN channels and MLS channels. NEL

The	foll
T	ACAN
CH	IANN
	2X
	2Y
	11X
:	11Y
	12X

12Y

17X

17Y

18X

189

19X 108.20 24Y 108.75 554 FREQUENCY

133.60

133.65

133 70

133.75

133.80

133.85

133.90

133.95

134 00

134 05

134 10

134.15

134.20

134.25

112.30

112.35

112 40

112 45

112 50

112 55

112.60

112.65

112.70

112.75

112.80

112.85

112.90

112.95

113.00

113.05

113 10

113.15

TACAN

CHANNEL

63X

63Y

64X

64Y

65X

65Y

66X

66Y

67X

67Y

68X

68Y

69X

69Y

70X

70Y

71 X

71Y

72X

72Y

73X

73Y

74X

74Y

75X

75Y

76X

76Y

77X

77V

78X

78Y

88Y

89X

89Y

90X

90Y

91X

91Y

92X

92Y

93X

93Y

94X

TACAN

CHANNEL

30Y

31X

31Y

32X

32Y

33X

34X

34Y

35X

35Y

36X

36Y

37X

37Y

38X

38Y

39X

397

40X

40Y

41X

41Y

42X

42Y

43X

43Y

44X

44Y

45X

45Y

46X

56X

56Y

57X

57Y

58X

58Y

59X

59Y

60X

60Y

61 X

61Y

VHF

FREQUENCY

109.35

109.40

109 45

109.50

109.55

109.60

109.65

109.70

109 75

109.80

109.85

109.90

109.95

110.00

110.05

110.10

110.15

110.20

110 25

110 30

110.35

110.40

110.45

110.50

110.55

110.60

110.65

110.70

110.75

110.80

110.85

110.90

111.90

111.95

112.00

112.05

112.10

112.15

112.20

112 25

133.30

133 35

133 40

133 45

MIS

CHANNEL

566

568

514

570

572

516

574

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576

518

578

580

520

582

584

522

586

588

524

590

592

526

594

596

528

538

618

TORY	LEG
VHF	

MIS

CHANNEL

TACAN

CHANNEL

95Y

96X

96Y

97X

97Y

98X

987

99X

99Y

100X

100Y

101X

101Y

102X

102Y

103X

103Y

104X

104Y

105X

105Y

106X

106Y

107X

107Y

108X

108Y

109X

109Y

110X

110Y

111X

121X

121Y

122X

122Y

123X

123Y

124X

124Y

125X

125Y

126X

126Y

VHF

FREQUENCY

114.85

114.90

114 95

115.00

115.05

115.10

115.15

115.20

115.25

115.30

115.35

115.40

115.45

115.50

115.55

115.60

115.65

115.70

115 75

115.80

115.85

115.90

115.95

116.00

116.05

116.10

116.15

116.20

116.25

116.30

116.35

116.40

117.40

117.45

117.50

117.55

117.60

117.65

117.70

117.75

117.80

117 85

117.90

117 95

MLS

CHANNEL

650

652

654

656

658

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660

662

664

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666

668

670

672

674

676

678

680

46Y	110.95	598	79X	113.20	-	111Y	116.45	682
47X	111.00	-	79Y	113.25	-	112X	116.50	-
47Y	111.05	600	80X	113.30	-	112Y	116.55	684
48X	111.10	530	80Y	113.35	620	113X	116.60	-
48Y	111.15	602	81X	113.40	-	113Y	116.65	686
49X	111.20	-	81Y	113.45	622	114X	116.70	-
49Y	111.25	604	82X	113.50	-	114Y	116.75	688
50X	111.30	532	82Y	113.55	624	115X	116.80	-
50Y	111.35	606	83X	113.60	-	115Y	116.85	690
51X	111.40	-	83Y	113.65	626	116X	116.90	-
51Y	111.45	608	84X	113.70	-	116Y	116.95	692
52X	111.50	534	84Y	113.75	628	117X	117.00	-
52Y	111.55	610	85X	113.80	-	117Y	117.05	694
53X	111.60	-	85Y	113.85	630	118X	117.10	-
53Y	111.65	612	86X	113.90	-	118Y	117.15	696
54X	111.70	536	86Y	113.95	632	119X	117.20	-
54Y	111.75	614	87X	114.00	-	119Y	117.25	698
55X	111.80	-	87Y	114.05	634	120X	117.30	-
55Y	111.85	616	88X	114.10	-	120Y	117.35	-

114.15

114.20

114.25

114.30

114.35

114.40

114.45

114.50

114.55

114 60

114 65

114 70

636

638

640

642

644

-

646

62X 133.50 94Y 114.75 648 62Y 133.55 95X 114.80

35 COMM/NAV/WEATHER REMARKS:

These remarks consist of pertinent information affecting the current status of communications, NAVAIDs and weather.

DISTRICT OF COLUMBIA

MUTSHINGTON

RONALD REAGAN WASHINGTON NATL

(DCA) 3 S UTC-5(-4DT) N38°51.13′ W77°02.26′ S2 FUEL JET A LRA Class I. ARFF Index C NOTAM FILE DCA

RWY 01-19: H6869X150 (ASPH-GRVD) S-110, D-200, 2D-360 H-10H, 12I, L-29E, 34F, 36I, A

PCN 57 F/B/X/T HIRL

RWY 01: ALSF2. TDZL. Twr. RWY 19: MALSF, VASI(V12)-GA 3.0°TCH 50', Rgt tfc. RWY 15-33: H5204X150 (ASPH-GRVD) S-110. D-200.

2D-360 PCN 57 F/B/X/T HIRL RWY 15: REIL. PAPI(P4L)—GA 3.0° TCH 46'. Fence. Rgt tfc.

RWY 33: REIL, VASI(V4L)—GA 3.0°TCH 53', Trees.

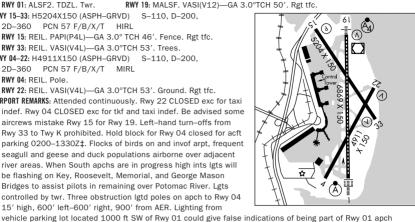
RWY 04-22: H4911X150 (ASPH-GRVD) S-110, D-200,

2D-360 PCN 57 F/B/X/T MIRL

RWY 04: REIL. Pole.

RWY 22: REIL. VASI(V4L)-GA 3.0°TCH 53'. Ground. Rgt tfc. AIRPORT REMARKS: Attended continuously. Rwy 22 CLOSED exc for taxi indef. Rwy 04 CLOSED exc for tkf and taxi indef. Be advised some aircrews mistake Rwy 15 for Rwy 19, Left-hand turn-offs from Rwy 33 to Twy K prohibited, Hold block for Rwy 04 closed for acft parking 0200-1330Z‡. Flocks of birds on and invof arpt, frequent seagull and geese and duck populations airborne over adjacent river areas. When South apchs are in progress high ints Igts will be flashing on Key, Roosevelt, Memorial, and George Mason Bridges to assist pilots in remaining over Potomac River, Lgts

controlled by twr. Three obstruction lgtd poles on apch to Rwy 04 15' high, 600' left-600' right, 900' from AER. Lighting from



WASHINGTON

COPTER

IAP, AD

indef. Rwy 22 VASI OTS indef. ASDE-X surveillance system in use. Pilots should operate transponders with Mode C on all twys and rwys. Rwy 19X exists to support the DCA LDA associated with the ILS. Twy P ends at Gate #5. Acft arriving/departing the general aviation parking area are prohibited from taxiing between air carrier pushback ops and the gates. Training flights that include multiple apchs and/or touch and go ops rqr prior permission from the arpt manager. Ldg fees. NOTE: See Special Notices —District of Columbia Ronald Reagan Washington National Airport. Noise Abatement and Prohibited Area (P-56) Avoidance Procedures and Continuous Power Facilities. WEATHER DATA SOURCES: ASOS (703) 412-8140, LLWAS, TDWR.

lighting system during periods of reduced visibility and low ceilings. Rwy 04 REIL OTS indef. Rwy 22 REIL OTS

COMMUNICATIONS: D-ATIS 132.65 (703-419-3917) UNICOM 122.95

R POTOMAC APP CON 118.3 (EAST) 124.7 (WEST)

WASHINGTON TOWER 119.1 (134.35 Helicopters) GND CON 121.7 CLNC DEL/PRE TAXI CLNC 128.25

R POTOMAC DEP CON 121.05 (WEST 10,000' up to FL 230) 118.95 (WEST 9500' and blo) 125.65 (EAST 9500' and blo) 126.55 (EAST 10,000' up to FL 190) AIRSPACE: CLASS B See VFR Terminal Area Chart.

RADIO AIDS TO NAVIGATION: NOTAM FILE DCA.

WASHINGTON (L) VORW/DME 111.0 DCA Chan 47 N38°51.57′ W77°02.19′ at fld. 9/09W.

GEORGETOWN NDB (MHW) 323 GTN N38°55.79′ W77°07.45′ 148° 6.2 NM to fld. Unmonitored.

OXONN NDB (MHW/LOM) 332 DC N38°45.96′ W77°01.60′ 005° 5.2 NM to fld. Unmonitored. **ILS/DME** 109.9 I-DCA Chan 36 Rwy 01. Class IIE. LOM OXONN NDB.

DME unusable bvd 14 NM blo 1600'.

LDA/DME 109.9 I-ASO Chan 36 Rwy 19. GS not authorized blo 1100'. DME unusable byd 12 NM. DME unusable byd 25° right of course. LOC unusable byd 25° right of course.

LDA/DME 108.5 I-VWH Chan 22 Rwy 19.

LOC only. LOC unusable byd 25° left and right of course. COMM/NAV/WEATHER REMARKS: Local flow traffic management-turbo jet arrivals Ronald Reagan Washington National

Tower in conjunction with the Washington ARTCC, has implemented a metering plan designed to minimize low altitude holding, reduce radar vectors and speeds requiring the extension of flaps and to provide for an orderly

flow of traffic to the final approach course. Dependent upon the airport acceptance rate, in-trail spacing between successive arrivals may necessitate using speed adjustments prior to reaching the Washington Terminal Area. Descent, under most conditions, will be from arrival fixes established 30 to 36 miles from the runway end.

Advance notice as to where to expect descent and when to expect base leg should be given. It is imperative that pilots control their descent at a uniform rate to preclude intermediate altitude restrictions. (Procedures are based on a near idle thrust, 300 feet per mile descent in still air conditions.)

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WASHINGTON

SOUTH CAPITOL STREET HELIPORT (Ø9W) ØN UTC-5(-4DT) N38°52.12' W77°00.45' 10 B FUEL JET A NOTAM FILE DCA HELIPAD H1: H60X60(ASPH) LDIN PERIMETER LGTS

COMMUNICATIONS: CTAF/UNICOM 123.05

HELIPORT REMARKS: Attended Mon-Fri 1200-0000Z‡ Sat- Sun 1600-0000Z‡. Open holidays upon reservation. Large loose grvl south and west of pavement. Helipad H1 75' Igtd bridge 500' E; 50' stack 400' W; 40' bldg 60' NE. Ingress and egress routes NE and SW over Anacostia River.

NE. 23 SEP 2010 to 18 NOV 2010

```
WASHINGTON DULLES INTL (IAD)
                                  20 W UTC-5(-4DT) N38°56.85′ W77°27.60′
                                                                                                  NOTONIHOAW
       B S4
                  FUEL 100, JET A OX 1, 2, 3 LRA Class I, ARFF Index E
                                                                                                      COPTER
  312
    NOTAM FILE IAD
                                                                                    H-10H, 12I, L-29E, 34E, 36I, A
  RWY 01C-19C: H11501X150 (CONC-GRVD) S-200, D-250, 2D-450, 2D/2D2-875
                                                                                                      IAP. AD
    PCN 81 R/C/W/T
                      HIRL CL
                                                                                        261
                                                                               19R
    RWY 01C: MALSR. TDZL. PAPI(P4L)-GA 3.0° TCH 70'.
    RWY 19C: ALSF2, TDZL, PAPI(P4R)-GA 3.0° TCH 72'.
  RWY 01R-19L: H11500X150 (CONC-GRVD) S-200, D-250, 2D-450,
    2D/2D2-875
                    PCN 81 R/C/W/T HIRL CL
    RWY 01R: ALSF2. TDZL. PAPI(P4R)-GA 3.0° TCH 72'. Building.
    RWY 19L: MALSR. PAPI(P4L)-GA 3.0° TCH 75'. Pole.
  RWY 01L-19R: H9400X150 (CONC-GRVD) S-200, D-250, 2D-450.
                                                                             P
    2D/2D2-875 PCN 81 R/C/W/T
                                      HIRL
                                             CI
    RWY 01L: ALSF2. TDZL. PAPI(P4L)-GA 3.0° TCH 70'.
                                                     0.3% down.
    RWY 19R: ALSF2. TDZL. PAPI(P4L)-GA 3.0° TCH 70'.
  RWY 12-30: H10501X150 (CONC-GRVD) S-200, D-250, 2D-450,
    2D/2D2-875
                    PCN 81 R/C/W/T HIRL
    RWY 12: MALSR, TDZL, PAPI(P4R).
    RWY 30: REIL. PAPI(P4L)-GA 3.0° TCH 75'. 0.4% up.
  RUNWAY DECLARED DISTANCE INFORMATION:
    RWY 01L: TORA-9400 TODA-9400
                                       ASDA-9400
                                                     IDA-9400
    RWY 01C: TORA-11501 TODA-11501 ASDA-11501 LDA-11501
    RWY 01R: TORA-11500 TODA-11500 ASDA-11500 LDA-11500
    RWY 12: TORA-10501 TODA-10501 ASDA-10501 LDA-10501
    RWY 19L: TORA-11500 TODA-11500 ASDA-11500 LDA-11500
    RWY 19C: TORA-11501 TODA-11501 ASDA-11501 LDA-11501
    RWY 19R: TORA-9400 TODA-9400 ASDA-9400 LDA-9400
    RWY 30: TORA-10501 TODA-10501 ASDA-10501 LDA-10501
  AIRPORT REMARKS: Attended continuously. Deer and large flocks of birds on and invof arpt. PAEW adjacent all rwys
    and twys indef. Flight training between 0300-1200Z<sup>±</sup> prohibited. Rwy 12 and Rwy 30 touchdown, rollout runway
    visual range avbl. Rwy 01C, Rwy 19C, Rwy 01R and Rwy 19L touchdown, midfield, and rollout, runway visual
    range avbl. Rwy 01L and Rwy 19R touchdown, midfield, and rollout visual range avbl. Itinerant acft ctc fixed base
    operator on 122.95 for services. ASDE-X Surveillance System in use. Pilots should operate transponders with
    Mode C on all twys and rwys. Air carrier push backs and power from all apron positions require clearance from
    MWAA Ramp tower. All acft with wingspan exceeding 118' are restricted from using Taxilane A between Taxilane
    A1 and A5. Twy E1 rstd to acft with a wingspan less than 79'. Twy J-3 clsd west of Twy J. Runup blocks for Rwy
    30 designated as non-movement area. Numerous flagged and lighted cranes operating in midfield area.
    Taxilane C active; pushback clncs on N side of midfield terminal are onto Taxilane D only unless otherwise
    authorized. All 180° turns out of apron positions shall be made using minimum power. During periods of acft
    saturation long term parking may not be avbl. Svc for fuel and go only will be avbl. Ldg fee. Flight Notification
    Service (ADCUS) available, NOTE: See Special Notices—Continuous Power Facilities.
  WEATHER DATA SOURCES: ASOS (703) 661-2990. LLWAS. TDWR.
  COMMUNICATIONS: D-ATIS 134.85 (703) 661-6347.
    ARMEL RCO 113.5T 122.1R (LEESBURG RADIO)
 R POTOMAC APP CON 126.1 (331°-090°) 124.65 (091°-240°) 120.45 (241°-330°)
    TOWER 120.1 (Rwy 01R-19L) 120.25 (Rwy 01C-19C)134.425 (Rwy 01L-19R, Rwy 12-30)
      MIDFIELD RAMP CON 129.55
      GND CON 121.9 (East) 132.45 (West)
                                          CLNC DEL 135.7
 (R) POTOMAC DEP CON 126.65(121°-299°) 125.05 (300°-120°)
  AIRSPACE: CLASS B See VFR Terminal Area Chart.
  RADIO AIDS TO NAVIGATION: NOTAM FILE IAD.
    ARMEL (L) VORTAC 113.5 AML Chan 82 N38°56.08' W77°28.00'
                      IA N38°50.84′ W77°26.27′
    TILLE NDB (LOM) 346
                                                     360° 6.1 NM to fld.
                        Rwy 19C.
                                    Class IIIE.
    ILS 111.3
                I-DLX
    IIS 111 3
                I-0S7
                         Rwv 01C.
                                    Class IE.
    ILS/DME 110.1
                    I-SGC
                             Chan 38
                                        Rwy 19L.
                                                   Class IE.
                    I-IAD
                            Chan 38
                                                  Class IIIE.
                                                               LOM TILLE NDB.
    ILS/DME 110.1
                                       Rwy 01R.
    ILS/DME 110.75
                   I-ISU
                             Chan 44Y
                                         Rwy 19R.
```

P

Rwy 01L.

Class IIIE.

Glideslope unmonitored.

ILS/DME 110.75

ILS 109.3

I-OIU

Rwv 12.

I-AJU

Chan 44Y

Class IE.

2010 U.S. & CANADIAN MILITARY AERIAL AIRCRAFT/PARACHUTE DEMONSTRATIONS

During calendar year 2010, the U.S. and Canadian Military Aerial Demonstration Teams (Thunderbirds, Blue Angels, Snowbirds, and Golden Knights) will be performing on the dates and locations listed below.

Pilots should expect Temporary Flight Restrictions (TFR) in accordance with 14 CFR Section 91.145, Management of aircraft operations in the vicinity of aerial demonstrations and major sporting events. The dimensions and effective times

of the TFRs may vary based upon the specific aerial demonstration event and will be issued via the U.S. NOTAM system. Pilots are strongly encouraged to check FDC NOTAMs to verify they have the most current information regarding these

airspace restrictions

an space resti	ictions.				
The currently	scheduled 2	2010 aerial demonstratio	n locations, subject to c	hange without notice, are	: :
DATE:		USAF Thunderbirds	USN Blue Angels	USA Golden Knights	Canadian Snowbirds
September	25-26		MCAS Kaneohe		
		McConnell AFB, KS	Bay, HI		Chico, CA
October	1-3		MCAS Miramar, CA		MCAS Miramar, CA
	2-3	Salinas, CA		MCAS Miramar, CA	
	2-3			Jackson, MS	
	9-10	Little Rock AFB, AR	San Francisco, CA	Little Rock, AFB, AR	Daytona Beach, FL
	16-17	El Paso, TX	Dobbins AFB, GA	El Paso, TX	Atlanta, GA
	23-24		NAS Jacksonville,		
		Houston, TX	FL	Washington, DC	
	30-31		Ft Worth Alliance,	Ft Worth Alliance,	
		Cocoa Beach, FL	TX	TX	
November	6-7	Lackland AFB, TX	Homestead ARB, FL	Lackland AFB, TX	
	6-7			Homestead ARB, FL	
	11-14			Ft Bragg, NC	
	12-13		NAS Pensacola, FL		
	13-14	Nellis AFB, NV			
—					

Note: Dates and locations are scheduled "show dates" only and do not reflect arrival or practice date TFR periods that may precede the specific aerial demonstration events listed above. Again, pilots are strongly encouraged to check FDC NOTAMs to verify they have the most current information regarding any airspace restrictions.



Washington DC SFRA Special Terms & Procedures

Procedures for Traffic Pattern Work:

Towered Airport: Request pattern work from tower; squawk 1234, remain in two-way communication with tower.

Non-Towered Airport: File DC SFRA flight plan; obtain and squawk discrete transponder code, communicate pattern position via published CTAF, and have ability to monitor VHF guard on 121.5 or UHF guard on 243.0

ATC Terms Specific to the DC SFRA:

Security services: Identification, communications and security tracking provided by an ATC facility in support of DOD, or other security elements. *NOTE*: Security services do not include basic radar services or any other ATC services.

Transponder observed: Used to inform a pilot that the aircraft's assigned beacon code and position has been observed. This transmission does *not* imply ATC services. It conveys only that the transponder reply has been observed and its position correlated for movement through security airspace.

Remain on the code until you land: Used when Potomac hands an inbound VFR flight off to the tower or authorizes change to advisory frequency for non-towered airports. It reminds pilots to remain on the assigned discrete transponder code until after landing. NEVER squawk 1200 inside the DC SFRA.

Emergency Procedures:

Transponder failure: An aircraft unable to transmit the ATC-assigned transponder code must contact ATC and comply with all instructions. If unable to contact ATC, the aircraft must exit the DC SFRA by the most direct lateral route.

Intercepts: Review interception procedures in the AIM. If you are intercepted, follow all instructions given by the intercepting aircraft. Monitor 121.5, provide call sign / position, and squawk 7700 unless otherwise directed.

Potomac TRACON Telephone Numbers

Area Name	Nearest major airport)	Telephone
Shenandoah	Dulles (IAD)	1-866-709-4993 1-540-349-4097
Mount Vernon	Reagan National (DCA) Andrews AFB (ADW)	1-866-599-3874 1-540-349-0493
Chesapeake	Baltimore (BWI)	1-866-429-5882 1-540-349-8478
James River	Richmond (RIC) Charlottesville (CHO)	1-866-640-4124 1-540-349-9697

rev 02/06/09



Washington DC SFRA Standard Requirements

Requirements to operate to/from, or within the DC SFRA (effective 0001 EST 17 February 2009)

- Two-way radio
- 2. Operating transponder with altitude reporting (Mode C)
- 3. Flight plan appropriate to intended operation:

IFR: IFR flight plan

VFR: DC SFRA flight plan for all operations, except:

- Fringe airport egress (no flight plan required)
- Towered airport pattern work (make request to tower)
- 4. Discrete transponder code for all operations, except:
 - Leesburg (JYO) ingress (1227) or egress (1226)
 - Fringe airport egress (1205)
 - Towered airport pattern work (1234)
- VFR speed restriction (≤ 180 KIAS in DC SFRA, & ≤ 230 KIAS from 30 NM - 60 NM from DCA VOR/DME unless otherwise authorized.)
- 6. Communication with ATC for all operations, except.
 - Leesburg (JYO) ingress/egress: make CTAF calls
 - Fringe airport egress: monitor guard if able
 - Towered airport pattern work: talk to tower
 - Non-towered airport pattern work:
 - Make CTAF calls & monitor guard if able

Activate: A DC SFRA flight plan to enter/exit the DC SFRA under VFR activates when the pilot obtains a discrete transponder code *except*:

- Leesburg (JYO) ingress/egress: with CTAF calls
- Fringe airport egress: when pilot squawks 1205
- Towered airport pattern: with squawk & talk
- Non-towered airport pattern: with CTAF calls

Closing: The DC SFRA flight plan closes when the aircraft exits or lands at an airport inside the DC SFRA.

rev. 02/06/09

Washington DC SFRA VFR Outbound Procedures*

Step 1: Preflight—File a DC SFRA Flight Plan

- ALWAYS review NOTAMs for current TFR information.
- File DC SFRA flight plan.
 - "I would like to file a DC SFRA flight plan for VFR flight from (departure airport) to (appropriate exit gate)"
- If desired, file separate VFR flight plan (search-and-rescue) to be activated after exiting the DC SFRA.

Step 2: Pre-Takeoff — Activate DC SFRA Flight Plan

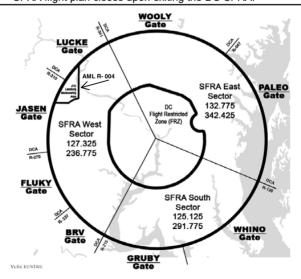
- Call ATC (tower, RCO, phone) for frequency & squawk.
 "Potomac Clearance, (call sign) at Tipton, VFR departure."
- Set assigned frequency & transponder code.
- Verify that Mode C (ALT) is on.

Step 3: After Takeoff—Communicate w/ ATC

- Establish radio contact with Potomac TRACON.
 "Potomac Departure, (call sign), off Tipton"
- Monitor assigned frequency
- Remain out of Class B unless explicitly cleared to enter.

Step 4: Exiting—Close DC SFRA Flight Plan

 Remain on frequency/squawk until ATC authorizes change; DC SFRA flight plan closes upon exiting the DC SFRA.



ALWAYS check NOTAMS!

2 rev. 02/06/09

Washington DC SFRA VFR Inbound Procedures*

Step 1: Preflight—File a DC SFRA Flight Plan

- ALWAYS review NOTAMs for current TFR information.
- File DC SFRA flight.

"I would like to file a DC SFRA flight plan for VFR flight from (appropriate entry gate) to (destination airport)."

Step 2: Before Entry - Activate DC SFRA Flight Plan

- Before entry, call Potomac to request transponder code.
 "Potomac Approach, (call sign), VFR inbound to Gaithersburg."
- Set assigned code and verify that Mode C (ALT) is on.
- Continue inbound unless otherwise instructed.
- Remain out of Class B unless explicitly cleared to enter.

Step 3: After Entry—Communicate w/ ATC

- Monitor Potomac TRACON.
- Remain out of Class B airspace unless explicitly cleared to enter.

Step 4: Arriving—Close DC SFRA Flight Plan

- Change to tower / advisory frequency when so instructed .
- Remain on assigned transponder code until you land.
- DC SFRA flight plan closes upon landing.

Entry/Exit Filing Gates for DC SFRA Flight Plans

Gate (Freq)	Defining Radials (DCA)		Parte (Freq) Defining Radials (DCA)		Visual Che	eckpoints
WOOLY (132.775)	R-341	R-044	I-270	I-95		
PALEO (132.775)	R-045	R-119	I-95	Abeam Chesa- peake Beach		
WHINO (125.125)	R-120	R-172	Abeam Chesa- peake Beach	Northern boundary Wicomico River		
GRUBY (125.125)	R-173	R-214	Northern boundary Wicomico River	Western boundary Potomac River / Widewater Beach		
BRV (127.325)	R-215	R-236	Western boundary Potomac River / Widewater Beach	West side of Lunga Reservoir		
FLUKY (127.325)	R-237	R-269	West side of Lunga Reservoir	VA Route 29		
JASEN (127.325)	R-270	R-309	VA Route 29	VA Route 7		
LUCKE (127.325)	R-310	R-339	VA Route 7	I-270		

*See page 1 for JYO ingress/egress & fringe airport egress procedures. For detailed information, see online DC SFRA course at www.faasafety.gov

rev. 02/06/09

EASTON, MARYLAND NOISE ABATEMENT PROCEDURE

When Easton Airport Traffic Control Tower is closed:

Routes L453, L454, L455, L456, L457, L459, L461, and L462, shall file and plan the following routing.

Departure RWY 22: Right turn and avoid overflight of Town of Easton. Departure RWY 04: Left turn at end of RWY to parallel

HWY 50 until past mobile home park.

No intersection take offs. VFR Arrivals: Report the Miles River bridge, 2.7 miles southwest of the airport at 2000' MSL for sequence to all RWYS. Contact 410–770–8055.

WEST ATLANTIC ROUTE SYSTEM (WATRS)

Effective immediately, all operators entering New York Center's West Atlantic Route System (WATRS) southbound on ATS

SOUTHBOUND SOUTHBOUND WATRS PLUS ROUTE STRUCTURE ACCESS FROM NEW YORK METROPOLITAN AREA

All operators entering New York Center's West Atlantic Route System (WATRS) southbound on ATS routes: L453, L454, L455, L456, L457, L459, L461 AND L462 shall flight plan and file the following routes: ATS ROUTE WATRS ACCESS ROUTING (SOUTHBOUND ONLY) For L453: . . . LINND-AZEZU-L453 . . . For L453 VIA B24: . . . B24-AZEZU-L453 . . . For L454; . . . LINND-ROLLE-ATUGI-L454 . . . For L454 VIA B24; . . . B24-WEBBB-ROLLE-ATUGI-L454 . . . For L455; . . . LINND-RESQU-UMEDA-L455 . . . For L455 VIA B24; ... B24-WEBBB-RESQU-UMEDA-L455 ... For L456; . . . LINND-SQUAD-DARUX-L456 . . . For L456 VIA B24; . . . B24-WEBBB-RESQU-DARUX-L456 . . . For L457; ... LINND-RESQU-UMEDA-L457 ... For L457 VIA B24; . . . B24-WEBBB-RESQU-UMEDA-L457 . . . For L459; ... LINND-SQUAD-DARUX-L459 ... For L459 VIA B24; ... B24-WEBBB-RESQU-DARUX-L459 ... For L461; . . . LINND-KINGG-KINER-L461 . . . For L462; . . . LINND-KAYYT-L462 . . .

EASTBOUND

TRANSITION TO NEW YORK OCEANIC CTA/FIR

For L462 VIA ACK; . . . ACK-J97-LACKS-KAYYT-L462 . . .

VIA: ORF AR9 ZIBUT

All operators transitioning the New York Center West Atlantic Route System (WATRS) via ZIBUT intersection, en route to the New York Center North Atlantic MNPS airspace, are encouraged to flight plan via:

ZIBUT direct LARGE direct SLATN or JOBOC or DOVEY

Operators opting to flight plan via any other fix or latitude/longitude coordinates east of ZIBUT intersection shall expect no higher than FL290 and may be rerouted to accommodate WATRS non-radar traffic.

NOTE-This route may be filed bi-directionally

SPECIAL NOTICES **NORTHBOUND**

ATS ROUTE

NORTHBOUND WATRS PLUS ROUTE STRUCTURE ACCESS TO **NEW YORK METROPOLITAN AREA**

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All northbound operators exiting New York Center's West Atlantic Route System (WATRS) on routes L453, L454, L455, L456, L457, L459, L461 AND L462 shall flight plan and file the following transition routes to join domestic routing:

WATRS EXIT ROUTING

	(NORTHBOUND ONLY)
From L453;	AZEZU–BERGH
From L454;	OKONU-L454-BERGH
From L454 TO B24;	OKONU-L454-WEBBB-B24
From L455;	SAVIK-L455-BERGH
From L455 TO B24;	SAVIK-AZEZU-B24
From L456;	MARIG-BERGH
From L457;	OKONU-L457-BERGH
From L457 TO B24;	OKONU-L457-WEBBB-B24
From L459;	SAVIK-L459-BERGH
From L459 TO B24;	SAVIK-AZEZU-B24
From L461;	MARIG-BERGH
From L462;	KAYYT-BERGH or KAYYT-LACKS-ACK
WAKE TURBULENCE FOR INTERSECTION DEPARTURES	

small aircraft departing from an intersection behind a preceding departing large aircraft. This waiver authorizes the tower to depart small aircraft from the intersection of RWY 01 and Twy Kilo without requiring a 3-minute interval behind a preceding large aircraft that departs from the end of the runway.

AEROBATIC PRACTICE AREA Roxbury, Connecticut

Teterboro Airport (TEB) Teterboro. New Jersev Teterboro Airport Traffic Control Tower has been granted a waiver to the guidelines that require a 3-minute interval for a

Aerobatic practice area will be conducted between the altitudes of 2500 ft and 4500 ft MSL and performed within an approximate 2 mile radius of a point defined from the CARMEL VOR (CMK) as the 052 degree radial/21.9 GPS-DME fix. It is 8 NM NW of the Oxford, CT airport (OXC).

SEARCH LIGHT DEMONSTRATION Baltimore, Maryland

Downtown, at the Inner Harbor

Each evening, seven days per week

Maryland, BAL 028/7. Lat N39°17'24", Long W76°36'27". Search light beams are being radiated from the SFC upward.

A vertical search light beam demonstration will be conducted at the Pier V Hotel, at Baltimore Inner Harbor, Baltimore,

LASER BASED ATMOSPHERIC RESEARCH

INTERVALE VILLAGE/MOUNT WASHINGTON VALLEY

Flashblindness or cockpit illumination may occur at several miles distance. The Leesburg Automated Flight Service Station,

Bartlett. New Hampshire

Laser based atmospheric research will be conducted at Intervale Village in the town of Bartlett, New Hampshire. The

"Ground Winds" system is a research laser that will be located at Latitude 44°05'56.24" North, Longitude 071°09'31.25"

The laser light will project at a fixed 45° angle, as measured from the horizon, from the surface to 60,000 feet and beyond. When activated, the light will be at a fixed azimuth, However, the azimuth will periodically change. At 10,000 feet in altitude, the internal cone will only be 10 miles in diameter, but only projecting in one direction (azimuth) at any time. Avoid airborne hazard, this beam may be injurious to Pilots/Aircrews and passengers eyes within 9 nautical miles. The secondary effects of Flash blindness or Cockpit Illumination may occur at great distances. The Bostin Air Route Traffic Control Center,

NE. 23 SEP 2010 to 18 NOV 2010

West (NAD83), or BML 195 032. Laser research will be conducted continuously.

1-703-771-3696 is the FAA coordination facility.

(603) 879-6655, is the FAA coordination facility.

354 SPECIAL NOTICES

Canobie Lake Water Park, Salem, New Hampshire

Laser Light Activity

Laser light shows are being conducted at the Canobie Lake Water Park in Salem, NH. Show orientation and laserbeam projections will be directed in all 360° directions. Laser light beams may be injurious to pilot's/passenger's eyes within

3,000 feet laterally of the light source and surface to 1,650 feet AMSL. The secondary effects of flash blindness or cockpit illumination may occur beyond these distances. The laser will be stationed at N42°47'32"/W071°14'44" (LWM 310/7.4

LASER LIGHT DEMONSTRATION

DME). Manchester ATCT 1-603-666-7591 will be the coordination facility.

Atlantic City. New Jersey

Laser light demonstrations are being conducted at the Atlantic Park, downtown Atlantic City, New Jersey, 0001-0700 UTC, ACY VORTAC 145/8.5. Approximately: 39°21'31"N/74°26'15"W. Laser light beam may be injurious to pilots/passengers

eyes within 100 feet above ground, 100 feet AMSL, 900 feet laterally of the light source. The secondary effects of flash blindness or cockpit illumination may occur beyond these distances. The Atlantic City ATCT, 609-641-3940, is the

Darien Lake Theme Park, Darien Center, New York Laser light demonstrations are being conducted at the Darien Lake Theme Park, Darien Center, NY. The show orientation

LASER LIGHT DEMONSTRATION

and laser beam projection are directed to the southern half of a circle form this site. Buffalo VOR/DME 100R/12NM. (42°56'04"N/78°23'30"W). Laser light beams may be injurious to pilot's/passenger's eyes within 2,800 feet of the light source, 1,600 feet above ground level. The secondary effect of flash blindness or cockpit illumination may occur beyond

these distances. The Buffalo ATCT, 716-633-0664 is the FAA coordination facility.

LASER LIGHT DEMONSTRATIONS DORNEY THEME PARK, DORNEYVILLE, PENNSYLVANIA

Laser light demonstrations are being conducted at the Dorney Theme Park, northwest of Dorneyville, PA. Show orientation and laserbeam projections directed to the southern quadrant from FJC 210D/10DME (N40°34'47"/W75°32'06"). Laser

light beams may be injurious to pilot's/passenger's eyes within 2000 ft laterally of the light source, 500 ft AGL, 1100 ft AMSL. The secondary effects of flash blindness or cockpit illumination may occur beyond these distances. Allentown ATCT, 1-610-264-4539 is the FAA coordination facility.

MODEL AIRCRAFT ACTIVITY, HARFORD COUNTY MARYLAND

Radio controlled model aircraft operating to 800 feet AGL vicinity of N39°37'30" W76°18'35" in Harford County, Maryland.

INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS **GENERAL EDWARD LAWRENCE LOGAN INTERNATIONAL AIRPORT (BOS)**

This waiver will allow the tower to taxi the aircraft into "position and hold" during period of darkness, at the intersections

BOSTON, MASSACHUSETTS Boston Logan International Airport Traffic Control Tower has been granted a waiver to the guideline that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise.

Runway 04R at Taxiway Charlie Runway 22L at Taxiway Charlie

listed below

coordination facility.

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible

from the tower. When the provisions of this waiver are being exercised, the affected runways shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise. However, aircraft

cannot be taxied into "position and hold" prior to takeoff clearance.

NE. 23 SEP 2010 to 18 NOV 2010

INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS **NEWARK LIBERTY INTERNATIONAL AIRPORT (EWR) NEWARK. NEW JERSEY**

This waiver allows the tower to taxi aircraft into "position and hold" during period of darkness, at the intersections listed

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible from the tower. When the provisions of this waiver are being exercised, the affected runways shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise. However, aircraft

Newark International Airport Traffic Control Tower has been granted a waiver to the guidelines that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise.

Runway 22R at Taxiway Whiskey Runway 22L at Taxiway Whiskey

helow

Runway 29 at Taxiway Romeo

cannot be taxied into "position and hold" prior to takeoff clearance.

cannot be taxied into "position and hold" prior to takeoff clearance.

taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise.

INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS JOHN F KENNEDY INTERNATIONAL AIRPORT (JFK)

NEW YORK, NEW YORK Kennedy Airport Traffic Control Tower has been granted a waiver to the guidelines that prohibits the control tower from

This waiver allows the tower to taxi aircraft into "position and hold" during period of darkness, at the intersections listed

Runway 13R at Taxiway Papa Delta Runway 22R at Taxiway Charlie Runway 31L at Taxiway Kilo Kilo Runway 31R at Taxiway Zulu Alpha

below.

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible

from the tower. When the provisions of this waiver are being exercised, the affected runways shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise. However, aircraft

INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS PITTSBURGH INTERNATIONAL AIRPORT (PIT) PITTSBURGH. PENNSYLVANIA

Pittsburgh Airport Traffic Control Tower has been granted a waiver to the guidelines that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise.

This waiver allows the tower to taxi the aircraft into "position and hold" during periods of darkness, at the intersections listed below. Runway 28L at Taxiway Papa

from the tower. When the provisions of this waiver are being exercised, the affected runways shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise. However, aircraft

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible

cannot be taxied into "position and hold" prior to takeoff clearance. INTERSECTING RUNWAY OPERATIONS

NEWARK LIBERTY INTERNATIONAL AIRPORT (EWR) NEWARK, NEW JERSEY

Newark Liberty International (EWR) Airport Traffic Control Tower (ATCT) has been authorized to conduct intersecting runway operations to Runway 29 and Runway 04R whereby an aircraft arriving Runway 29 shall be through the intersection of Runway 04R prior to the arriving aircraft on Runway 04R reaching a point no closer than 5,000 feet from the intersection of both runways.

SPECIAL NOTICES 356

PHILADELPHIA. PENNSYLVANIA Philadelphia International Airport Control Tower has been granted a waiver that authorizes air traffic personnel to conduct simultaneous ILS approaches to Runway 26 while aircraft simultaneously depart Runway 27R.

INTERSECTING RUNWAY OPERATIONS PHILADELPHIA INTERNATIONAL AIRPORT (PHL)

LAND AND HOLD SHORT LIGHTS (for LAHSO) **BOSTON-LOGAN AIRPORT. MASSACHUSETTS**

Land and Hold Short lights have been installed on four runways at Boston-Logan Airport (BOS). These in-pavement lighting systems will remain on/flashing whenever LAHSO is expected to be conducted to that particular runway. Flight crews

should also expect to see these lights on/flashing even when authorized the full length of the runway for landing, or when utilizing that runway for departure. Land and Hold Short lights have been installed at the following locations:

Runway 22L (Short of Runway 27/09) Runway 4L (Short of Runway 33R/15L)

CHARLESTON, WEST VIRGINIA

Mine blasting approximately 25 NM south and southeast of Charleston, West Virginia as follows: Mine Blasting HVQ VORTAC 110° 25 DME to 400' AGL

Mine Blasting HVQ VORTAC 189° 26 DME to 300' AGL

reports of such occurrences to nearest FAA Air Traffic Facility.

Runway 27 (Short of Runway 22L/04R) Runway 15R (Short of Runway 09/27)

to/from Maine and Cape may file V167.

above the surface over the Chesapeake Bay and adjacent coastal waters. Pilots should be alert for this activity. For further

CAUTION—FISH SPOTTING ACTIVITY—CHESAPEAKE BAY AND COASTAL WATERS Caution is advised for extensive fish spotter aircraft activity between May 1 and December 1 upwards from 1500 feet

information contact FAA/Norfolk ATCT on 1-757-460-5142.

BOSTON. MASSACHUSETTS

To avoid the concentration of aircraft arriving and departing Boston, pilots requesting IFR flight at and below altitudes 14,000 feet MSL should file for airways beyond 40 NM from Boston VORTAC between the hours of 0800-2100 local. Traffic

BOURNE, MASSACHUSETTS

Aircraft operation below 2000 ft and within 3 miles of Pave Paws radar site located in Restricted Area 4101 may experience momentary erratic operation of cockpit instruments or navigational equipment. Pilots are encouraged to submit

SPECIAL NORTH ATLANTIC. CARIBBEAN AND

PACIFIC AREA COMMUNICATIONS VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground

stations to exchange necessary operational information and to facilitate the resolution of operational problems. Frequencies have been designated as follows: 123.45 MHz North Atlantic area:

> Caribbean area: 123.45 MHz Pacific area: 123.45 MHz

MILITARY TRAINING ROUTES The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all

military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data for military users.

CIVIL USE OF MILITARY FIELDS:

U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission. Army

Installations, prior permission is required from the Commanding Officer of the installation. For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded

landing. An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft. Forms and further information may be obtained from the nearest U.S. Navy or Marine Corps aviation activity.

For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the

direct to Hq USAF (PRPOC), Washington, D.C. 20330. Use of USAF installations must be specifically justified. For Navy and Marine Corps installations, prior permission should be requested at least 30 days prior to first intended

When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

Commanding Officer of the field.

public use airport or seaplane base.

is obtained from the respective agency.

AIRCRAFT LANDING RESTRICTIONS Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government

agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated

Landing of aircraft is prohibited on lands or waters administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization

Airport/Ident

designation.

SPECIAL NOTICES

CONTINUOUS POWER FACILITIES In order to insure that a basic ATC system remains in operation despite an areawide or catastrophic commercial power

failure, key equipment and certain airports have been designated to provide a network of facilities whose operational capability can be utilized independent of any commercial power supply. In addition to those facilities comprising the basic ATC system, the following approach and lighting aids have been

included in this program for a selected runway. 1. ILS (Localizer, Glide Slope, COMLO, Inner, Middle and Outer Markers)

Airport/Ident

Milwaukee, WI (MKE).....

Minneapolis, MN (MSP)

Nashville, TN (BNA)

New Orleans, LA (MSY).....

New York, NY (JFK)

New York, NY (LGA)

Newark, NJ (EWR).....

Oklahoma City, OK (OKC)

Omaha, NE (OMA))

Ontario, CA (ONT).....

Philadelphia, PA (PHL)

Phoenix, AZ (PHX).....

Runway No.

01L

30L

021

10

22

04R

04R

35R

14R

26L

09R

08

- 2. Wind Measuring Capability
- 3. Approach Light System (ALS) or Short ALS (SALS)
- 4. Ceiling Measuring Capability

Runway No.

08

07R

011

09R

10

31

10R

04R

361

10

36C

06R

- 5. Touchdown Zone Lighting (TDZL)
- 6. Centerline Lighting (CL)
- 7. Runway Visual Range (RVR)
- 8. High Intensity Runway Lighting (HIRL)
- 9. Taxiway Lighting
- 10. Apron Light (Perimeter Only)

Albuquerque, NM (ABQ)

Anchorage, AK (ANC)

Andrews AFB, MD (ADW)

Atlanta, GA (ATL).....

Baltimore, MD (BWI).....

Bismarck, ND (BIS)

Boise, ID (BOI).....

Boston, MA (BOS)

Charlotte, NC (CLT)

Chicago, IL (ORD).....

Cincinnati, OH (CVG)

Cleveland, OH (CLE)

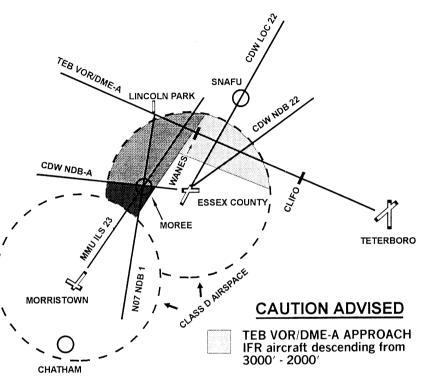
The following have been designated "Continuous Power Airports," and have independent back up capability for the equipment installed.

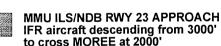
Dallas/Fort Worth, TX (DFW)	17C	Pittsburgh, PA (PIT)	10L
Denver, CO (DEN)	35R	Reno, NV (RNO)	16R
Des Moines, IA (DSM)	31	Salt Lake City, UT (SLC)	34L
Detroit, MI (DTW)	03R	San Antonio, TX (SAT)	12R
El Paso, TX (ELP)	22	San Diego, CA (SAN)	09
Fairbanks, AK (FAI)	01L	San Francisco, CA (SFO)	28R
Great Falls, MT (GTF)	03	San Juan, PR (SJU)	08
Honolulu, HI (HNL)	08L	Seattle, WA (SEA)	16C
Houston, TX (IAH)	26L	St. Louis, MO (STL)	30R
Indianapolis, IN (IND)	05L	Tampa, FL (TPA)	36L
Jacksonville, FL (JAX)	07	Tulsa, OK (TUL)	36R
Kansas City, MO (MCI)	19R	Washington, DC (DCA)	01
Los Angeles, CA (LAX)	24R	Washington, DC (IAD)	01R
Memphis, TN (MEM)	36L	Wichita, KS (ICT)	01L
Miami, FL (MIA)	08R		

NOTE—The existing CPA runway is listed. Pending and future changes at some locations will require a revised runway

CALDWELL - TETERBORO - MORRISTOWN

INSTRUMENT APPROACH - AIRSPACE INTERACTION CHART







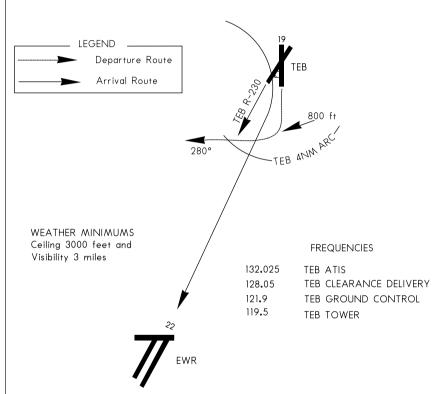
SPECIAL NOTICES

TERMINAL AREA GRAPHIC NOTICE (Not to be used for Navigation)

Teterboro (TEB) Airport Runway 19 VFR Departure Procedure with Transition to an IFR Clearance when Newark is landing Runway 22 and Teterboro is departing Rwy 19.

"DALTON DEPARTURE PROCEDURE"

PILOTS SHOULD SPECIFICALLY REQUEST THIS PROCEDURE USING THE ABOVE NAME.

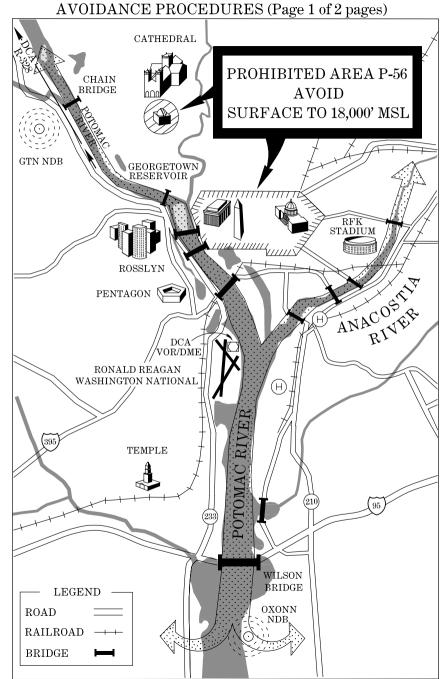


FLY RUNWAY HEADING UNTIL 800 FEET, THEN TURN RIGHT HEADING 280. COMPLETE THE TURN RIGHT WITHIN 4 DME FROM TEB. MAINTAIN VFR AT OR BELOW 1,300 FEET: DO NOT EXCEED 190 KNOTS. IF UNABLE, ADVISE.

EXPECT A CLIMB CLEARANCE AFTER CROSSING THE TEB R-230. THE CLIMB CLEARANCE CONSTITUTES IFR ACTIVATION AND PILOTS ARE EXPECTED TO RESUME NORMAL AIRSPEED. EXPECT CONTROL INSTRUCTION TO A DEPARTURE FIX AS DESCRIBED IN THE PUBLISHED TEB STANDARD INSTRUMENT DEPARTURE.

NOTE: CAUTION WAKE TURBULENCE. NEWARK ARRIVALS DESCENDING OVERHEAD FROM 3000' TO 1800'.

RONALD REAGAN WASHINGTON NATIONAL AIRPORT NOISE ABATEMENT & PROHIBITED AREA (P-56)



SPECIAL NOTICES RONALD REAGAN WASHINGTON NATIONAL AIRPORT 363

NOISE ABATEMENT & PROHIBITED AREA (P-56) AVOIDANCE PROCEDURES (Page 2 of 2 pages)

P-56 BEGINS APPROXIMATELY 1.5 NM NORTH OF THE DEPARTURE END OF RUNWAY 01-SURFACE TO 18.000' MSL REMAIN CLEAR OF P-56 AT ALL TIMES

EXPECT THE PUBLISHED RNAV DEPARTURE PROCEDURE OR ATC INSTRUCTIONS FOR THE FOLLOWING NON-RNAV PROCEDURES NORTHWEST: Follow the Potomac River until abeam the Georgetown reservoir or the DCA 4 DME, then join the DCA 328

radial, expect radar vectors at 10 DME. A left turn as soon as practicable, especially with a west wind, is required to maintain a ground track over the Potomac River and remain clear of P-56. If unable to maintain visual reference to the Potomac River, join the DCA 328 radial. NORTHEAST: Follow the Anacostia River to 5 DME. A right turn as soon as practicable, especially with a east wind, is

required to maintain a ground track over the Anacostia River and remain clear of P-56. Expect Radar Vectors at 5 DME. If unable to maintain visual reference to the Anacostia River, then join the DCA 070 radial. SOUTH: Follow the Potomac River to 5 DME, then expect radar vectors. If unable to maintain visual reference to the Potomac river, then join the DCA 185 radial.

conditions, expect the advertised instrument approach.

ARRIVAL PROCEDURES

NIGHTTIME NOISE LEVELS From 2200 to 0700 local time, operation of aircraft type and model which exceed the following noise levels violate

LANDING NORTH: Weather conditions 3000/4 or better, expect the Mount Vernon visual approach. Lower weather

LANDING SOUTH: Weather conditions 3500/3 or better, expect the River Visual Approach. Lower weather conditions,

Metropolitan Washington Airport Authority Regulation (MWAR) 3.11:

expect the advertised instrument approach.

DEPARTURES - 72 dBA as generated on takeoff. ARRIVALS - 85 dBA as generated on approach, except that aircraft scheduled to arrive before 2200 will be permitted to land if they have received an approach clearance before 2230. Ref. MWAR 3.11 and Advisory Circular 36-3.

SPECIAL NOTICES 364

NIAGARA FALLS FLIGHT RESTRICTION AREA

Part 93—Special Air Traffic Rules: Subpart E—Flight Restrictions in the Vicinity of Niagara Falls, New York

§ 93.71 General operating procedures

- from latitude 43°06'33"N., longitude 78°03'30"W. (the Whirlpool Rapids Bridge) to latitude 43°04'47"N., longitude 79°02'44"W. (the Niagara River Inlet) to latitude 43°04'29"N., longitude 79°03'30"W. (the International Control Dam) to the United States/Canadian Border and thence along the border to the point of origin.

(a) Flight restrictions are in effect below 3,500 feet MSL in the airspace above Niagara Falls, New York, west of a line

- (b) No flight is authorized below 3,500 feet MSL in the area described in paragraph (a) of this section, except for aircraft operations conducted directly to or from an airport/heliport within the area, aircraft operating on an ATC-approved IFR flight
- plan, aircraft operating the Scenic Falls Route pursuant to approval of Transport Canada, aircraft carrying law enforcement officials, or aircraft carrying properly accredited news representatives for which a flight plan has been filed with Buffalo NY (BUF) Automated Flight Service Station (AFSS).
- Transport Canada will be conducting a north/south orbit of the Niagara Falls area below 3,500 feet MSL over the Niagara (d) The minimum altitude for VFR flight over the Scenic Falls area is 3.500 feet MSL.

(c) Check with Transport Canada for flight restrictions in Canadian airspace. Commercial air tour operations approved by

- (e) Comply with the following procedures when conducting flight over the area described in paragraph (a) of this section: (1) Fly a clockwise pattern;
- (2) Do not proceed north of the Rainbow Bridge;
- (3) Prior to joining the pattern, broadcast flight intentions on frequency 122.05 Mhz, giving altitude and position, and monitor the frequency while in the pattern: (4) Use the Niagara Falls airport altimeter setting, Contact Niagara Falls Airport Traffic Control Tower to obtain the current altimeter setting, to facilitate the exchange of traffic advisories/restrictions, and to reduce the risk of midain
- collisions between aircraft operating in the vicinity of the Falls. If the Control Tower is closed, use the appropriate Automatic Terminal Information Service (ATIS) Frequency; (5) Do not exceed 130 knots; (6) Anticipate heavy congestion of VFR traffic at or above 3,500 feet MSL; and

 - (7) Use caution to avoid high-speed civil and military aircraft transiting the area to or from Niagara Falls Airport. (f) These procedures do not relieve pilots from the requirements of Sec. 91.113 of this chapter to see and avoid other
- aircraft. (g) Flight following, to and from the area, is available through Buffalo Approach.

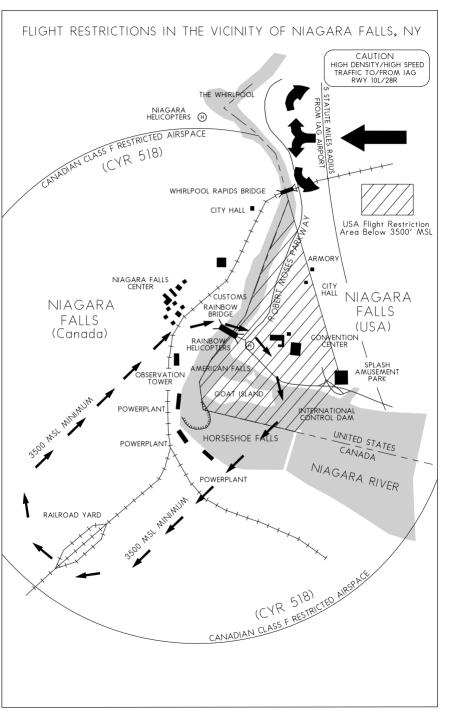
ADVISORY: AMUSEMENT ATTRACTION-NIAGARA FALLS, NY

An amusement attraction similar to a moored balloon will be conducted daily, 0700-2400 LCL, April 1 through October 31, 5 miles SW of the Niagara Falls Intl Airport (IAG), approx. BUF305/021, on the American side of Rainbow Bridge, Niagara Falls, NY, at altitudes up to 1050'MSL/500'AGL. For further information contact Buffalo AFSS on 1-716-631-3756.

CONTINUED ON NEXT PAGE

SPECIAL NOTICES

CONTINUED FROM PRECEDING PAGE



TERMINAL AREA GRAPHIC NOTICE (NOT TO BE USED FOR NAVIGATION)

White Plains, New York WESTCHESTER COUNTY AIRPORT NOISE ABATEMENT PROCEDURES

Noise abatement procedures in effect at all times, contact 914-995-4861.

Airport located in noise sensitive area. Noise monitoring and positive aircraft and helicopter event identification in effect at all times.

High Range Noise Event program: Operators that cause noise levels at or above 93 dBA will be contacted.

Voluntary restraint from flying time period is from midnight to 6:30 am local time. Limit use of reverse thrust.

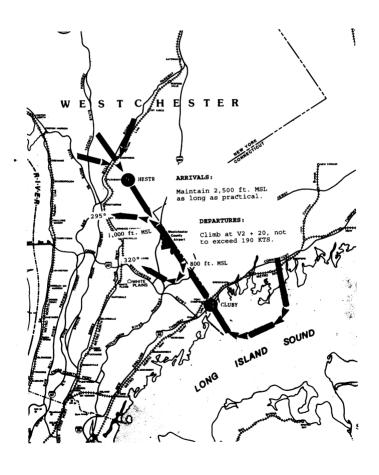
Run-ups: Must receive prior approval from airport operations. No aircraft with certificated maximum gross weight in excess of 120,000 lb. land or take off at the airport without prior permission of the Airport Manager.

For all aircraft above 12,500 lbs: Use SIDs and STARs for noise abatement, conditions permitting; utilize Sound Visual Approach to Runw turn final for Runway 16 outside outer marker.

All runways: Utilize NBAA "standard" departure procedures, or AC91-53A "distant" noise abatement departure procedure. Light aircraft: Runway 34 departures north and eastbound, fly over interstate until reaching 1,500 feet MSL, then on course.

Touch-and-go's: Runway 29 recommended traffic pattern in effect. Helicopters: Use New York Helicopter Route Chart for noise abatement, fly routes at or above 2,000 ft MSL.

Copies of noise abatement procedures are available.



TERMINAL AREA GRAPHIC NOTICE (NOT TO BE USED FOR NAVIGATION)

Nantucket. Massachusetts Nantucket Memorial Airport VFR Noise Abatement Procedures

Noise abatement procedures in effect at all times, contact (508) 325-7531. Additional detailed noise abatement procedures via internet at www.NantucketAirport.com/noise.htm.

ARRIVALS

CONTACT NANTUCKET TOWER (118.3) 15 MILES OUT FOR LANDING INSTRUCTIONS

SINGLE ENGINES - (Pattern speed 130 knots or less) Plan to overfly island high (2000'+ AGL). Expect L/R base landing Runway 30 or Runway 33 when x-winds are under 12 knots. Descend offshore for landing whenever possible.

TWINS - Remain over water and expect to land on Runway 24 (wind permitting). Contact Tower for landing sequence abeam Great Point. Cross Third Point at 1000' AGL.

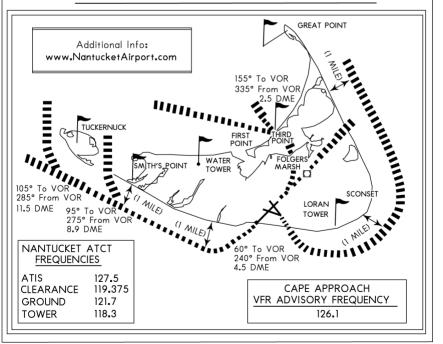
Follow Folgers Marsh (right base) for landing on Runway 24.

TURBOPROPS/JETS - Remain over water and expect straight in approach to Runway 24 (wind permitting). Enter final approach offshore outside Outer Marker.

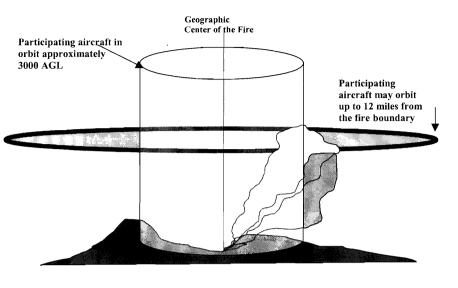
DEPARTURES

Make maximum use of over water departure routes, maintaining 1 mile offshore and avoid island crossings whenever possible.

GENERAL AVIATION/AIRLINE CORRIDORS



FIREFIGHTING TRAFFIC AREAS



Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information.

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The following narratives summarize the FAR Part 93 Special Air Traffic Rules, and Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

Reservation Office at the Air Traffic Control System Command Center at (703) 904-4452.

HDTA if additional operational limits or procedures are required by NOTAM and/or regulation.

beginning at 11 a.m. on the previous Monday.

situations without regard to slot reservations.

advance reservation through e-CVRS.

OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS KENNEDY. LAGUARDIA. AND WASHINGTON REAGAN NATIONAL

REGULATORY NOTICES

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, World Aeronautical

The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K,

and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time. Reservation procedures are detailed in Advisory Circular 93-1, Reservations for Unscheduled Operations at High Density Traffic Airports. A copy of the advisory circular is available on the FAA website at http://www.faa.gov. Reservations for

unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e-CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights. The toll-free telephone number for accessing e-CVRS is 1-800-875-9694 and is available for calls originating within the United States, Canada, and the Caribbean. Users outside the toll-free areas may access e-CVRS by calling the toll number of 703-707-0568. The Internet web address for accessing the e-CVRS is http://www.fly.faa.gov/ecvrs. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport

Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high-density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted

IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an

Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904-4452. ATC will accommodate declared other emergency

NOTE: Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an

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FSS TELEPHONE NUMBERS Flight Service Station (FSS) facilities provide flight planning and weather briefing services to pilots. FSS services in the

contiguous United States, Hawaii and Puerto Rico, are provided by a network of large FSS facilities and a few select remote facilities some of which operate part-time. Because of the interconnectivity between the facilities, all FSS services including radio frequencies are available continuously using published data.

Telephone Information Briefing Service (TIBS) is a FSS service that provides continuous recordings of meteorological and/or

Further information can be found in the Aeronautical Information Manual (AIM).

NATIONAL ESS TELEPHONE NUMBER

aeronautical information. A touch-tone telephone is required to fully utilize this service.

MATIONAL TOO TELET HOME NOMBEN

OTHER FSS TELEPHONE NUMBERS (except in Alaska)

* District of Columbia Special Flight Rules Area & Flight Restricted Zone

372 FAA AND NWS

KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

(IVIETAK)			
	091730Z 091818 15005KT 5SM HZ FEW020 WS010/31022KT		
	930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +T	SRA	
	C008CB 100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM	A-RA BR	
	015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW		
METAR KP	IT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OV	C010CB	
	2 RMK SLP045 T01820159		
Forecast	Explanation	Report	
TAF	Message type: <u>TAF</u> -routine or <u>TAF AMD</u> -amended forecast, <u>METAR</u> -hourly, <u>SPECI</u> -special or <u>TESTM</u> -non-commissioned ASOS report	METAR	
KPIT	ICAO location indicator	KPIT	
091730Z	Issuance time: ALL times in UTC "Z", 2-digit date, 4-digit time	091955Z	
091818	Valid period: 2-digit date, 2-digit beginning, 2-digit ending times		
	In U.S. METAR : <u>COR</u> rected ob; or <u>AUTO</u> mated ob for automated report with no human intervention; omitted when observer logs on	COR	
15005KT	Wind: 3 digit true-north direction, nearest 10 degrees (or <u>VaRiaBle</u>); next 2-3 digits for speed and unit, <u>KT</u> (KMH or MPS); as needed, <u>G</u> ust and maximum speed; 00000KT for calm; for METAR , if direction varies 60 degrees or more, <u>V</u> ariability appended, e.g. 180 <u>V</u> 260	22015G25KT	
5SM	Prevailing visibility: in U.S., Statute Miles & fractions; above 6 miles in TAF Plus6SM. (Or, 4-digit minimum visibility in meters and as required, lowest value with direction)	3/4SM	
	Runway Visual Range: R; 2-digit runway designator Left, Center, or Right as needed; '/'; Minus or Plus in U.S., 4-digit value, FeeT in U.S., (usually meters elsewhere); 4-digit value Variability 4-digit value (and tendency Down, Up or No change)	R28L/2600FT	
HZ	Significant present, forecast and recent weather: see table (on back)	TSRA	
FEW020	Cloud amount, height and type: SKy Clear 0/8, FEW >0/8-2/8, SCaTtered 3/8-4/8, BroKeN 5/8-7/8, OVerCast 8/8; 3-digit height in hundreds of ft; Towering CUmulus or CumulonimBus in METAR; in TAF, only CB. Vertical Visibility for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In automated METAR reports only, CLeaR for "clear below 12,000 feet"	OVC010CB	
	Temperature: degrees Celsius; first 2 digits, temperature "/" last 2 digits, dew-point temperature; Minus for below zero, e.g., M06	18/16	
	Altimeter setting: indicator and 4 digits; in U.S., A-inches and hundredths; (Q-hectoPascals, e.g., Q1013)	A2992	

KEY to AERODROME FORECAST (TAF) and **AVIATION ROUTINE WEATHER REPORT** (METAR)

FroM and 2-digit hour and 2-digit minute **beginning** time: indicates significant change. Each FM starts on new line, indented 5 spaces.

TEMPOrary: changes expected for < 1 hour and in total, < half of

Explanation **Forecast** WS010/31022KT In U.S. TAF, non-convective low-level (≤2,000 ft) Wind Shear: 3-digit height (hundreds of ft); "/"; 3-digit wind direction and 2-3 digit wind

Report RMK **SLP045** Pressure in hectoPascals & tenths, as shown: 1004.5 hPa; Temp/ T01820159 dew-point in tenths °C, as shown: temp. 18.2°C, dew-point 15.9°C

GS Small hail/snow pellets

speed above the indicated height, and unit, KT In METAR, ReMarK indicator & remarks, For example: Sea-Level

2-digit hour **beginning** and 2-digit hour **ending** time period PROB40 0407 PROBability and 2-digit percent (30 or 40); probable condition during 2-digit hour **beginning** and 2-digit hour **ending** time period **BECMG 1315** BECoMinG: change expected during 2-digit hour beginning and 2-digit hour ending time period the order listed below; or as needed in TAF, No Significant Weather.

Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in **QUALIFIER** Intensity or Proximity - Liaht "no sign" Moderate + Heavy VC Vicinity: but not at aerodrome; in U.S. METAR, between 5 and 10SM of the point(s) of observation; in U.S. TAF, 5 to 10SM from center of runway complex (elsewhere within 8000m)

Descriptor MI Shallow BC Patches PR Partial TS Thunderstorm BL Blowing SH Showers FZ Freezing DR Drifting WEATHER PHENOMENA Precipitation SN Snow SG Snow grains

GR Hail

DZ Drizzle RA Rain

FM1930

TEMPO 2022

PL Ice pellets IC Ice crystals

UP Unknown precipitation in automated observations BR Mist (≥5/8SM) FG Fog (<5/8SM) FU Smoke VA Volcanic ash SA Sand HZ Haze PY Sprav DU Widespread dust

Obscuration

Other SQ Squall SS Sandstorm DS Duststorm PO Well developed FC Funnel cloud +FC tornado/waterspout dust/sand whirls

Explanations in parentheses "()" indicate different worldwide practices. Ceiling is not specified; defined as the lowest broken or overcast layer, or the vertical visibility.

NWS **TAFs** exclude turbulence, icing & temperature forecasts; NWS **METARs** exclude trend fcsts Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility ≥10 km; no cloud below 5000 ft (1500 m) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, DRDU, DRSA or DRSN.

UNITED STATES DEPARTMENT OF COMMERCE NOAA/PA 96052 National Oceanic and Atmospheric Administration—National Weather Service

FAA AND NWS

KEY AIR TRAFFIC FACILITIES

Air Traffic Control System Command Center

Main Number......703-904-4400

RGNL AIR TRAFFIC DIVISIONS			
REGION TELEPHONE			
Alaskan	907-271-5464		
Central	816-329-2500		
Eastern	718-553-4502		
Great Lakes	847-294-7202		
New England	781-238-7500		
Northwest Mountain	425-227-2500		
Southern	404-305-5500		
Southwest	817-222-5500		
Western Pacific	310-725-6500		

AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)

*24 HR RGNL

ARTCC NAME	DUTY OFFICE TELEPHONE #	BUSINESS Hours	BUSINESS TELEPHONE #
Albuquerque	817-222-5006	7:30 a.m4:00 p.m.	505-856-4300
Anchorage	907-271-5936	7:30 a.m4:00 p.m.	907-269-1137
Atlanta	404-305-5180	7:30 a.m5:00 p.m.	770-210-7601
Boston	617-238-7001	7:30 a.m4:00 p.m.	603-879-6633
Chicago	847-294-8400	8:00 a.m4:00 p.m.	630-906-8221
Cleveland	847-294-8400	8:00 a.m4:00 p.m.	440-774-0310
Denver	425-227-1389	7:30 a.m4:00 p.m.	303-651-4100
Ft. Worth	817-222-5006	7:30 a.m4:00 p.m.	817-858-7300
Houston	817-222-5006	7:30 a.m4:00 p.m.	281-230-5300
Indianapolis	847-294-8400	8:00 a.m4:00 p.m.	317-247-2231
Jacksonville	404-305-5180	8:00 a.m4:30 p.m.	904-549-1501
Kansas City	816-329-3000	7:30 a.m4:00 p.m.	913-254-8500
Los Angeles	661-265-8200	7:30 a.m4:00 p.m.	661-265-8200
Memphis	404-305-5180	7:30 a.m4:00 p.m.	901-368-8103
Miami	404-305-5180	7:00 a.m3:30 p.m.	305-716-1500
Minneapolis	847-294-8400	8:00 a.m4:00 p.m.	651-463-5580
New York	718-995-5426	8:00 a.m4:40 p.m.	516-468-1001
Oakland	310-725-3300	6:30 a.m3:00 p.m.	510-745-3331
Salt Lake City	425-227-1389	7:30 a.m4:00 p.m.	801-320-2500
Seattle	425-227-1389	7:30 a.m4:00 p.m.	253-351-3500
Washington	718-995-5426	8:00 a.m4:30 p.m.	703-771-3401

MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)

TRACON NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS Hours	BUSINESS TELEPHONE #
Atlanta	404-305-5180	7:00 a.m3:30 p.m.	404-669-1200
Chicago	847-294-8400	8:00 a.m4:00 p.m.	847-608-5509
Dallas/Ft. Worth	817-222-5006	7:30 a.m4:00 p.m.	972-615-2500
Denver	425-227-1389	7:30 a.m4:00 p.m.	303-342-1500
Houston	817-222-5006	7:30 a.m4:00 p.m.	281-230-8400
New York	718-995-5426	8:00 a.m4:30 p.m.	516-683-2901
Northern CA	310-725-3300	7:00 a.m3:30 p.m.	916-366-4001
Potomac	718-995-5426	8:00 a.m4:30 p.m.	540-349-7500
Southern CA	310-725-3300	7:30 a.m4:00 p.m.	858-537-5800

^{*}Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:00 a.m.-5:30 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:00 p.m.

8:00 a.m.-4:00 p.m.

8:00 a.m.-4:00 p.m.

8:00 a.m.-4:30 p.m.

8:30 a.m.-5:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

8:00 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:00 a.m.-3:30 p.m.

7:30 a.m.-4:00 p.m.

7:00 a.m.-3:30 p.m.

7:30 a.m.-4:00 p.m.

8:00 a.m.-5:00 p.m.

8:00 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:00 a.m.-3:30 p.m.

7:00 a.m.-4:30 p.m.

7:30 a.m.-4:00 p.m.

7:00 a.m.-4:00 p.m.

8:00 a.m.-4:00p.m.

7:00 a.m.-3:30 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-5:00 p.m.

8:00 a.m.-4:30 p.m.

7:30 a.m.-4:00 p.m.

8:00 a.m.-4:30 p.m.

7:30 a.m.-4:00 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

7:30 a.m.-4:00 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

7:00 a.m.-3:30 p.m.

7:30 a.m.-5:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

7:30 a.m.-4:00 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

8:00 a.m.-4:30 p.m.

BUSINESS **TELEPHONE #**

505-842-4366

301-735-2380

410-962-3555

617-455-3100

203-627-3428

818-567-4806

704-344-6487

773-884-3670

773-601-7600

216-898-2020

606-767-1006

972-615-2531

937-454-7300

303-342-1600

734-955-5000

907-474-0050

305-356-7932

713-230-8400

404-669-1200

808-840-6100

713-847-1400

317-484-6600

808-877-0725

816-329-2700

702-262-5978

310-342-4900

504-471-4300

901-322-3350

305-869-5400

612-713-4000 615-781-5460

718-656-0335

718-335-5461

973-565-5000

408-982-0750

909-983-7518

407-850-7000

215-492-4100

602-379-4226

412-269-9237

503-493-7500

919-840-5544

703-413-1535

801-325-9600

210-805-5507

619-299-0677

650-876-2883

809-253-8663

206-768-2900

314-890-1000

813-371-7700

907-271-2700

201-288-1889

571-323-6372

561-683-1867

914-948-6520

KFY AIR TRAFFIC FACILITIES

	DAILY NAS REPORTABLE	AIRPORTS
	*24 HR RGNL	
AIRPORT	DUTY OFFICE	RUSINI

Andrews AFB, MD

Bradlev Intl. CT

Baltimore/Washington

Burbank/Bob Hope, CA

Chicago O'Hare Intl, IL

Chicago Midway, IL

Charlotte Douglas Intl. NC

Cleveland Hopkins Intl, OH

Covington/Cincinnati, OH

Dallas/Ft. Worth Intl, TX

Dayton Cox Intl. OH

Denver Intl. CO

Detroit Metro, MI

Fairbanks Intl, AK

George Bush

Honolulu Intl. HI

Houston Hobby, TX

Indianapolis Intl, IN

Las Vegas McCarran, NV Los Angeles Intl, CA

Minneapolis/St. Paul, MN

New York Kennedy Intl, NY

Phoenix Sky Harbor Intl, AZ

Ronald Reagan Washington National, DC

San Diego Lindbergh Intl, CA

Ted Stevens Anchorage Intl, AK

Washington Dulles Intl, DC

West Palm Beach, FL

Westchester Co, NY

New York La Guardia, NY

Newark Liberty Intl, NJ

Kahului/Maui, HI Kansas City Intl, MO

Memphis Intl, TN

Nashville Intl, TN

Ontario Intl, CA

Orlando Intl. Fl. Philadelphia Intl, PA

Pittsburgh Intl, PA

Raleigh-Durham, NC

Salt Lake City, UT

San Juan Intl. PR

Tampa Intl. FL

Teterboro, NJ

San Antonio Intl, TX

San Francisco Intl, CA

Seattle-Tacoma Intl, WA

St. Louis Lambert, MO

Portland Intl, OR

Miami Intl, FL

Fort Lauderdale Intl, FL

Intercontinental/Houston, TX

Hartsfield-Jackson Atlanta Intl. GA

Louis Armstrong New Orleans Intl, LA

Norman Y. Mineta San Jose Intl, CA

Intl Thurgood Marshall, MD Boston Logan Intl, MA

AIRPORT NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS
Albuquerque Intl Sunport, NM	817-222-5006	8:00 a.m5:00 p.m.

718-995-5426

718-995-5426

781-238-7001

617-238-7001

310-725-3300

404-305-5180

847-294-8400

847-294-8400

847-294-8400

708-294-7401

817-222-5006

847-294-8400

425-227-1389

847-294-8400

907-271-5936

404-305-5180

817-222-5006

404-305-5180

310-725-3300

817-222-5006

847-294-8400

310-725-3300

816-329-3000

310-725-3300

310-725-3300

817-222-5006

404-305-5180

404-305-5180

847-294-8400

404-305-5180

718-995-5426

718-995-5426

718-995-5426

310-725-3300

310-725-3300

404-305-5180

718-995-5426

310-725-3300

718-995-5426

425-227-1389

404-305-5180

718-995-5426

425-227-1389

817-222-5006

310-725-3300

310-725-3300

404-305-5180

425-227-1389

816-329-3000

404-305-5180

907-271-5936

718-995-5426

718-995-5426

404-305-5180

718-995-5426

NE. 23 SEP 2010 to 18 NOV 2010

*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

AIR ROUTE TRAFFIC CONTROL CENTERS

Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

RATLANTA CENTER Greensboro - 128.8 124.425

H-6-9-10. L-18-22-24-25-26-36, A-1 (KZTL)

®BOSTON CENTER

H-10-11-12, L-30-31-32-33-34 (KZBW)

Augusta - 134.95

Barnstable - 132.9 128.75 127.825 Berlin - 135.7 135.7

Bucks Harbor - 133.45 133.45

Tri City - 132.9 126.775 120.725

Burlington - 118.825 120.35 120.35 Calverton - 124.525 Caribou - 124.75

Concord - 128.325 Cummington - 132.65

Gardner - 134.7 123.75 Houlton - 128.05 120.25

Hyannis - 133.45 133.45 Islip - 135.8 132.3

Kingston - 134.3 Lake George - 135.325 133.625 128.325 121.35

Lebanon - 134 7 Melrose - 135.55 133.325 119.25

Millinocket - 128.05 Montpelier - 135.7 135.7

Portland - 128.2 Rockdale - 133.25 126.475

St. Albans - 128.05 124.25 120.25

Shelton - 135.075 134.0 128.1 125.575 Turin - 135.25 133.25 123.875 120.35

Utica - 124.125

Waterboro - 128.2 118.55

Woodstock - 135.325 133.425 133.425 127.65 124.85 118.425.

REMARKS: The provisions of enroute primary radar not available in the BOSTON ARTCC Watertown, NY area at 12,000' and below, Rockdale/Utica, NY areas at 11,000' and below, Delancey, NY area at 7,000' and below, and in the Syracuse/Georgetown, NY areas at all altitudes.

(R) CLEVELAND CENTER

Altoona - 132.125 128.45 124.4 121.2

Bradford - 126.725

Dubois - 126.725 Dunkirk - 125.2

Holland - 135.775 120.625

Moon Township - 134.475 254.725 133.075

Morgantown - 126.95

Warren - 134.125 132.925 119.725

Waterford - 127.07

Wayland - 127.475 124.325

(R)INDIANAPOLIS CENTER - 135.25 132.775 119.95 Bluefield - 126.575

Charleston - 134.225 127.4 119.525

Marmet - 134.225 127.4

(KZOB)

H-2-5-10-11-12, L-27-28-29-30-31-32, A-2

H-5-9-10-12, L-16-25-26-27-29

(KZID)

AIR ROUTE TRAFFIC CONTR	OL CENTERS	377
RNEW YORK CENTER Arr-Dep US - 133.7 Barnegat - 132.15 132.15 Barnstable - 135.8 125.925 Big Flat - 133.475 132.2 Colts Neck - 118.975 Douglaston - 134.375 133.05 Elk Mountain - 134.45 132.175 128.5 Flint Hill - 124.625 134.6 132.1 Huguenot - 132.6 Joliet - 133.675 132.5 Matawan - 125.325 127.175 Millville - 134.325 Modena - 135.45 Nantucket - 121.125 North Mountain - 133.5 128.575 123.625 121.325 Philipsburg - 134.8 132.875 Sayre - 133.35 Ship Bottom - 128.3 133.05 Sparta - 133.15 Williamsport - 124.9	H-10-11-12, L-29-	-30-32-33-34-36 (KZNY)
® WASHINGTON CENTER Arr-Dep US - 135.5 133.82 133.12 128.52 127.7 127.42 Atlantic City - 133.12 Bucks Elbow - 135.4 133.2 133.2 121.675 Buena Vista - 134.625 134.4 133.025 127.925 Cape Charles - 128.525 Cedar Lake - 124.77 124.77 Elkins - 128.6 Falls Church - 126.875 135.525 133.97 132.775 Grantsville - 133.65 Green Bay - 133.725 132.025 127.75 118.75 Hagerstown - 134.15 134.15 Linden - 133.55 Lynchburg - 133.575 Manteo - 124.725 Martinsburg - 132.275 Millville - 125.45 125.45 Modena - 132.525 Patuxent River - 133.9 Roanoke - 134.625 Sea Isle - 127.7	H-9-10-12, L-24-25-26-2	29–34–35–36, A–1 (KZDC)

Ship Bottom - 127.025 **Smyrna -** 132.05 South Boston - 124.05 Whaleyville - 120.75 White Sulfur Springs - 120.85 Wilmington - 135.75

FLIGHT SERVICE STATION COMMUNICATION FREQUENCIES 378 VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. Frequencies in bold type are available all altitudes but recommended for use FL180 and above, "T" indicates transmit only and "R" indicates receive only, RCO's available at NAVAIDS are listed after the NAVAID name, RCO's not at NAVAID's are listed by name. ALTOONA AFSS ALLEGHENY VOR/DME 110.0T 122.1R 122.2 122.4 ALTOONA RCO 122.1R 122.2 122.65 123.6 ALTOONA VOR 108.8T BRADFORD VOR/DME 116.6T 122.1R 122.2 122.3 CLARION VOR/DME 112.9T 122.1R DU BOIS RCO 122.2 ELLWOOD CITY VORTAC 115.8T 122.1R ERIE VORTAC 109.4T 122.1R FRANKLIN VOR 109.6T 122.1R INDIAN HEAD VORTAC 108.2T 122.1R JOHNSTOWN VORTAC 113.0T 122.1R 122.65 KEATING VORTAC 116.0T 122.1R MONTOUR VORTAC 112.0T 122.1R PHILIPSBURG VORTAC 115.5T 122.1R 122.5 122.6 REVLOC VOR/DME 110.6T 122.1R

SLATE RUN VORTAC 113.9T 122.1R ST MARYS RCO 121.3

ST THOMAS VORTAC 115.0T 122.1R TIDIOUTE VORTAC 117.6T 122.1R

TYRONE VORTAC 114.9T 122.1R

BANGOR AFSS AUGUSTA VOR/DME 111.4T 122.1R 122.2 122.6 BANGOR RCO 122.2 **BELFAST RCO 121.975**

BERLIN RCO 122.35 BUCKS HARBOR RCO 122.5 CARIBOU RCO 122.3

CLAREMONT RCO 122.4 CONCORD RCO 122.2 122.3 FRYEBURG RCO 122.55

GREENVILLE RCO 122.3 HOULTON VOR/DME 116.1T 122.1R 122.2

KEENE VORTAC 109.4T 122.1R KENNEBUNK VORTAC 117.1T 122.1R LEBANON VOR/DME 113.7T 122.1R 122.2 122.5 MANCHESTER VOR/DME 114.4T 122.1R MILLINOCKET VOR/DME 117.9T 122.1R 123.6

PRINCETON VOR/DME 114.3T 122.1R WATERBORO RCO 122.25

WHITEFIELD RCO 122.4

BRIDGEPORT AFSS BOSTON VORTAC 112.7T 122.1R 122.4 CHESTER RCO 122.25

BRIDGEPORT VOR/DME 108.8T 122.1R 122.2

FITCHBURG RCO 118.025 GARDNER VORTAC 110.6T 122.1R

GROTON VOR 110.85T 122.1R HYANNIS RCO 126.425 LAWRENCE VOR/DME 112.5T 122.1R MADISON VOR/DME 110.4T 122.1R MANSFIELD RCO 121.725

WORCESTER RCO 122.2

MARTHAS VINEYARD VOR/DME 114.5T 122.1R

NANTUCKET VOR/DME 116.2T 122.1R NEW HAVEN VOR/DME 109.8T 122.1R NORWICH VOR/DME 110.0T 122.1R PROVIDENCE RCO 122.6 PUTNAM VOR/DME 117.4T 122.1R QUONSET STATE RCO 122.3 WINDSOR LOCKS RCO 122.3

FLIGHT SERVICE STATION COMMUNICATION FREQUENCIES	379
BUFFALO AFSS BINGHAMTON VORTAC 112.2T 122.1R BUFFALO RCO 122.1R 122.2 122.6 BUFFALO VOR/DME 116.4T DUNKIRK VORTAC 116.2T 122.1R ELMIRA RCO 122.2 122.4 ELMIRA VOR/DME 109.65T GENESEO VOR/DME 108.2T 122.1R GEORGETOWN VORTAC 117.8T 122.1R HANCOCK VOR/DME 116.8T 122.1R ITHACA VOR/DME 111.8T 122.1R JAMESTOWN VOR/DME 114.7T 122.1R ROCHESTER RCO 122.6 ROCKDALE VOR/DME 112.6T 122.1R UTICA VORTAC 111.2T 122.1R 122.2 122.65 WELLSVILLE VORTAC 111.4T 122.1R	
BURLINGTON AFSS ALBANY VORTAC 115.3T 122.1R 122.2 122.45 BARNES VORTAC 113.0T 122.1R BURLINGTON RCO 122.2 122.6 CHESTER VOR/DME 115.1T 122.1R GLENS FALLS VORTAC 110.2T 122.1R 122.2 122.4 MASSENA RCO 122.2 MONTPELIER RCO 122.2 122.6 NEWPORT RCO 122.5 OGDENSBURG RCO 122.4 PITTSFIELD RCO 122.05 PLATTSBURGH VORTAC 116.9T 122.1R RUTLAND RCO 122.3 SARANAC LAKE VOR/DME 109.2T 122.1R SPRINGFIELD RCO 122.5 WATERTOWN VORTAC 109.8T 122.1R 122.2 122.3	
ELKINS AFSS BECKLEY VORTAC 117.7T 122.1R BLUEFIELD VORTAC 110.0T 122.1R 122.2 122.65 CHARLESTON VORTAC 117.4T 122.1R 122.2 122.55 CLARKSBURG VOR/DME 112.6T 122.1R CUMBERLAND RCO 122.35 ELKINS VORTAC 122.2 122.45 123.6 114.2T 122.1R GRANTSVILLE VOR/DME 112.3T 122.1R HENDERSON VORTAC 115.9T 122.1R HUNTINGTON RCO 122.2 122.6 IVY KNOB RCO 124.3 KESSEL VOR/DME 110.8T 122.1R MARTINSBURG RCO 122.45 MORGANTOWN VORTAC 111.6T 122.1R 122.6 PARKERSBURG VORTAC 108.6T 122.1R 122.4 RAINELLE VOR 116.6T 122.1R WHEELING VOR/DME 118.65 112.2T 122.1R	
LEESBURG AFSS 122.0 122.2 122.6 ARMEL VORTAC 113.5T 122.1R BALTIMORE VORTAC 115.1T 122.1R 122.2 BROOKE VORTAC 114.5T 122.1R BUCK'S ELBOW MOUNTAIN RCO 122.2 122.65 CAPE CHARLES VORTAC 112.2T 122.1R CHARLOTTESVILLE RCO 122.2 122.65 DANVILLE VOR 113.1T 122.2 FALLS CHURCH RCO 122.2 122.6 ELAT POCK VORTAC 1143.2T 122.4 R	

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FREDERICK VOR 109.0T 122.1R GLADE SPRING VOR/DME 110.2T 122.1R

GORDONSVILLE VORTAC 115.6T 122.1R HAGERSTOWN VOR 109.8T 122.1R

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LAWRENCEVILLE VORTAC 112.9T 122.1R

LINDEN VORTAC 114.3T 122.1R

LYNCHBURG VORTAC 109.2T 122.1R

MARTINSBURG VORTAC 112.1T 122.1R

MONTEBELLO VOR/DME 115.3T 122.1R

NEWPORT NEWS RCO 122.2 122.65

NORFOLK VORTAC 116.9T 122.1R NOTTINGHAM VORTAC 113.7T 122.1R

PATUXENT VORTAC 117.6T 122.1R

PULASKI VORTAC 116.8T 122.1R 122.3

RICHMOND VORTAC 114.1T 122.1R 122.2 122.4

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SNOW HILL VORTAC 112.4T 122.1R 122.6

SOUTH BOSTON VORTAC 110.4T 122.1R WESTMINSTER VOR/DME 117.9T 122.1R

MILLVILLE AFSS

ATLANTIC CITY VORTAC 108.6T 122.55

BROADWAY RCO 122.35

CEDAR LAKE VORTAC 115.2T 122.1R

COLTS NECK RCO 122.3

COYLE VORTAC 113.4T 122.1R

DUPONT VORTAC 114.0T 122.1R MILLVILLE RCO 122.1R 122.2 **122.65** 123.65

ROBBINSVILLE VORTAC 113 8T 122 1R 122 45

SEA ISLE VORTAC 114.8T 122.1R

SMYRNA VORTAC 111.4T 122.1R

SOLBERG VOR/DME 112.9T 122.1R

SPARTA RCO 122.5

STILLWATER VOR/DME 109.6T 122.1R

TETERBORO RCO 122.2 122.65

WATERLOO VOR/DME 112.6T 122.1R

WOODSTOWN VORTAC 112.8T 122.1R

NEW YORK IFSS

HAMPTON VORTAC 113.6T 122.1R 122.6

HUGUENOT VOR/DME 116.1T 122.1R KENNEDY VOR/DME 115.9T 122.1R

KINGSTON VOR/DME 117.6T 122.1R

LA GUARDIA VOR/DME 117.01 122.1K

NEW YORK DOO 400 0 400 0

NEW YORK RCO 122.2 122.6

POUGHKEEPSIE RCO 122.2 122.4

WILLIAMSPORT AFSS

ALLENTOWN VORTAC 117.5T 122.1R

HARRISBURG VORTAC 112.5T 122.1R 122.2 122.4

LANCASTER VORTAC 117.3T 122.1R

MODENA VORTAC 113.2T 122.1R

NORTH PHILADELPHIA VOR 112.0T 122.2 122.6

POTTSTOWN VORTAC 116.5T

RAVINE VORTAC 114.6T 122.1R

SELINSGROVE VORTAC 110.4T 122.1R

STONYFORK VOR/DME 108.6T 122.1R

WILKES-BARRE RCO 122.2 122.6

WILLIAMSPORT RCO 122.2 122.65

WILLIAMSPORT VOR/DME 114.4T 122.1R

YARDLEY VOR/DME 108.2T

FSDO 38

FLIGHT STANDARDS DISTRICT OFFICES (FSDO)

Below is a list of FSDO's in the area of coverage of this directory. These offices serve the aviation industry and tl general public on matters relating to certification and operation of general aviation aircraft. Address letters to Manage

Flight Standards District Office-Federal Aviation Administration. Flight Standards personnel in these offices are responsible for serving the aviation industry and the general public on a matters relating to the certification and operation of general aviation aircraft.

CONNECTICUT

1st Floor, Building 85-214 Bradley International Airport Windsor Locks, Connecticut 06096-1009

Telephone: 860-654-1000 DISTRICT OF COLUMBIA

13873 Park Center Road, Suite 475 Herndon, VA 20171

Hallmark Building

Telephone: 703-230-7664 Fax: 703-230-7720

MAINE

Portland International Jetport 2 AL McKay Avenue Portland, Maine 04102 Telephone: 207-780-3263

MARYLAND

890 Airport Park Road

Cromwell Business Park Glen Burnie, Maryland 21061 Mailing Address BWI Airport, Maryland 21240 Telephone: 410-787-0040

MASSACHUSETTS

One Cranberry Hill Fourth Floor, Suite 402 Lexington, Massachusetts 02421-7394 Telephone: 781-274-7130 Fax: 781-274-6725

NEW JERSEY

Park 80 West, Plaza One Saddlebrook, New Jersey 07663 Telephone: 201-556-6600

NEW YORK

7 Airport Park Boulevard Latham, New York 12110 Telephone: 518-785-5660

Route 110, Republic Airport Farmingdale, New York 11735 Telephone: 631-755-1300 990 Stewart Ave., Suite 630

Administrative Building, Suite 235

Garden City, NY 11530-4858 Telephone: 516-228-8033 #1 Airport Way, Suite 110 Rochester, New York 14624 Telephone: 585-436-3880

PENNSYLVANIA

Allegheny County Airport 3000 Lebanon Church Road, Suite 300 West Mifflin, Pennsylvania 15122 Telephone: 412-466-5357

Allentown-Bethlehem-Easton Airport 961 Marcon Blvd., Suite 111 Allentown, Pennsylvania 18103 Telephone: 610-264-2888

Capital City Airport 400 Airport Rd, Room 101 New Cumberland, Pennsylvania 17070 Telephone: 717-774-8271

International Plaza #2, 2nd Floor Philadelphia, Pennsylvania 19113 Telephone: 610-595-1500 One Thorn Run Center, Suite 200

1187 Thorn Run Extension Coraopolis, PA 15108

Telephone: 412-262-9034

VIRGINIA

Richmond Intl 5757 Huntsman Rd, Suite 100 Richmond, Virginia 23250-2415 Telephone: 804-222-7494

WEST VIRGINIA

Yeager Airport 301 Eagle Mountain Road, Room 144 Charleston, West Virginia 25311 Telephone: 304-347-5199

382 ROUTES

PRFFFRRFD IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their route of flight, to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic, using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and en route flight environments. Cooperation by all pilots in filling preferred routes will result in fewer traffic delays and will better provide for efficient departure, en route and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing single direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

- 1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight are normally cleared directly on the airway.
- 2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).
- 3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.
- 4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.
 - 5. Where more than one route is listed the routes have equal priority for use.
 - 6. Official location identifiers are used in the route description for VOR/VORTAC navaids.
 - 7. Intersection names are spelled out.
- 8. Navaid radial and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39); another navaid radial (e.g. UIM UIM255 GSW081); or an intersection (e.g., GSW081 FITCH).
- Where two navaids, an intersection and a navaid, a navaid and a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.
- 10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Peurto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.
 - 11. (90-170 incl) altitude flight level assignment in hundred of feet.
- 12. The notations pressurized and unpressurized for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.
 - 13. High Altitude Preferred IFR Routes are in effect during the following time periods unless otherwise noted.

Sun	1300-2259	local	time.
Mon thru Fri	0701-2259	local	time.
Sat	0701-1459	local	time.
CID and OTADO for State along the			

- 14. Use current SIDs and STARSs for flight planning.
- 15. For high altitude routes, the portion of the routes contained in brackets [] is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

LOW ALTITUDE

Terminals	Route	Effective Times (UTC)
ALBANY (ALB)		
Boston (BOS)	(60-170 incl) V2 GDM GDM-STAR	1100-0300
Kennedy (JFK)	(60-170 incl, non-jet) V44 DPK	1100-0300
La Guardia (LGA)	(70-170 incl, less than 250 kts) V123	1100-0300
	or	
	(110-170 incl, 250 kts or more) IGN V157	
	HAARP	1100-0300
NE Philadelphia (PNE)	(90-170, non-turbojet) V14 CEDOR DNY051 DNY	
	LHY LVZ V613 FJC V149 MAZIE ARD	1100-0300
	or	
	(90-170, turbojet) V14 CEDOR DNY051 DNY LHY	
	LVZ V29 ETX V30 V149 MAZIE ARD	1100-0300
Newark (EWR)	(70-170 incl, non-turbojet) V489 COATE	1100-0300
,	or	
	(110-170 incl, turbojet) V213	
	TALCO SHAFF-STAR	1100-0300
Philadelphia (PHL)	(60-170 incl less than 210 kts, non-turbojet)	
	V14 CEDOR DNY051 DNY V449 LHY V93 LVZ	
	V29 PTW	1100-0300
		1100-0300
	or	

Terminals	Route	Effective Times (UTC)
	(60–170 incl 210 kts plus, non-turbojet) V14 CEDOR DNY051 DNY V449 LHY V93 LVZ V613	
	FJC PTWor	1100-0300
	(70-170 turbojets only) V14 CEDOR DNY051 DNY SLATT-STAR	
Trenton (TTN)	(90–170, non-turbojet) V14 CEDOR DNY051 DNY LHY LVZ V613 FJC V149 MAZIE ARDor	1100-0300
	(90–170, turbojet) V14 CEDOR DNY051 DNY LHY LVZ V29 ETX V30 V149 MAZIE ARD	1100-0300
BALTIMORE (BWI)—See Washington/Baltimore	re Metro	
BOSTON METRO AREA (BOS)		
Cleveland (CLE)	(60–170) MHT V490 UCA V2 SYR V84 GEE V464 V115 TDT V72 V232 CXR	1000-0300
Kennedy (JFK)	(110-170, jets) LUCOS SEY067 SEY PARCH CCC ROBER	1100-0300
	or (110–170, Props) LUCOS SEY067 SEY HTO V46	1100 011.
	DPK	
	or (AOB 100) BOSOX V419 V14 ORW V16 DPK	
La Guardia (LGA)	(110–170 incl, more than 250 kts) BOSOX BDL BDL255 VALRE V157 HAARP	1100-0300
	or	1100 000
	(110–170 incl, less than 250 kts) GLYDE BAF PWL V405 CASSH V123 HAARP	
Martha's Vineyard (MVY)	BOS V141 DRUNK	0000-2359
NE Philadelphia (PNE)	HTO V139 BRIGS ACY V184 00D	1100-0300
	or (90-170, non-turbojet) V292 SAGES V408 LHY	
ı	LVZ V613 FJC V149 MAZIE ARD or	1100-0300
	(110–170, water) BOS LUCOS SEY067 SEY HTO	1400 0200
	V139 MANTA V276 ARDor	1100-0300
I	(110-170, non-turbojet, water) BOS LUCOS SEY067 SEY HTO V139 BRIGS ACY V184 00D	1100-0300
I	or	1100 000.
I	(60–100, water) ARCER SEY V268 HTO V139 MANTA V276 ARD	1100-0300
I	or	1100 1
I	(110–170, jets) BOS LUCOS SEY067 SEY HTO V139 BRIGS CEDAR LAKE-STAR	1100-0300
Newark (EWR)	(110–170 incl, props) GLYDE BAF V292 SAGES V489 COATE	1100-0300
ı	or	1100-0300
Philadelphia (PHL)	(110–170, Jets) BOSOX BDL SHAFF–STAR (80–170 incl) ARCER SEY V268 HTO V308 DRIFT	
	V312 CYNor	1100-0300
I	(60-170, non-turbojet, >210 kts) V292 SAGES V408 LHY V93 LVZ V613 FJC PTW	1100-0300
Rochester (ROC)	(60–170 incl) MHT V490 UCA V2	1000-0300
Syracuse (SYR)	(60-170 incl) MHT V490 UCA V2(60-100, water) ARCER SEY V268 HTO V139	1000-0300
Henton (TTA)	MANTA V276 ARD	1100-0300
	or (110–170, water) BOS LUCOS SEY067 SEY HTO	1100 0200
I	V139 MANTA V276 ARDor	1100-0300
	(90–170, non-turbojet) V292 SAGES V408 LHY LVZ V613 FJC V149 MAZIE ARD	1100-0300
	LVZ VOIG 130 VITO NULLI AND ALLAND	1100 0000

Terminals	Route	Effective Times (UTC)
Washington Natl (DCA)	(80-170 incl) ARCER AVONN V268 HTO V308 OTT	1100-030
Wilmington (ILG)	(60–100, non-turbojet, water) ARCER SEY V268 HTO V139 BRIGS ACY V184 OOD	1100-030
	or (110–170, non–turbojet, water) BOS LUCOS SEY067 SEY HTO V139 BRIGS ACY V184 OOD or	1100-030
	(110–170, turbojets) BOS LUCOS SEY067 SEY HTO V139 BRIGS CEDAR LAKE–STAR	1100-030
BRIDGEPORT (BDR)		
Baltimore (BWI)	(at or above FL170) BEADS V139 AVALO V268 BAL	
BUFFALO (BUF)		
Boston (BOS)	(60-170 incl) V252 GEE V14 GDM GDM-STAR (60-170 incl) V84 LAN V218 ELX V55 GIJ V156	1100-030
Chicago O'Haro (ORD)	V92 CGT	1100-030
Chicago O'Hare (ORD) Cleveland (CLE)	(60–170 incl) V84 PAPPI (60–170 incl) V115 JHW V270 ERI V14 JFN CXR	1100-0300 1100-0300
Detroit Metro Wayne Co (DTW) Detroit Satellites: Ann Arbor (ARB), Windsor (CYQG),	(60-170 incl) V2 YQ0 SPICA-STAR	1100-030
Willow Run (YIP)	(60-170 incl) V2 YQ0	1100-030
Elmira (ELM)	(60–170 incl) V14 GEE V147	1100-030
Philadelphia (PHL) Pittsburgh (PIT)	(60–170 incl) V33 V210 BUNTS(60–170 incl) V115 TDT CIP GRACE-STAR	1100-030
Washington Natl (DCA)	(60–170 incl) V113 TDT CIP GRACE–STAR	1100-030
CAPE COD (CPD)	•	
Atlantic City (ACY)	(60–100 singles) V34 SEY V268 HTO CCC V16 DIXIE V229	1000-030
	or (AOB 100 all) V34 SEY V268 HTO V308 BRIGS or	1000-030
	(AOB 100 all) V146 BAF V292 SAGES V408 LHY V106 LVZ V29 MXE V184	1000-030
Dover AFB (DOV)	(60 –100 singles) V34 SEY V268 HTO V46 DPK V16 ENO	1000-030
	or	
	(AOB 100 all) V34 SEY V268 ENOor (AOB 100 all) PVD V146 BAF V292 SAGES V408	1000-030
Dubois (DUJ)	LHY V106 LVZ V29 ENO	1000-030
22255 (203)	LHY V58 FQM V226 PARDY	1000-030
Gaithersburg (GAI)	(60–100 singles) V34 SEY V268 HTO V46 DPK V16 ENO V268 BAL	1000-030
	or	
	(AOB 100 all) SEY HTO V268 EMIor (AOB 100 all) PVD V146 BAF V292 SAGES V408	1000-030
NE Philadelphia (PNE)	LHY V93 LRP V457 EMI	1000-030
NE Philadelphia (PNE)	V46 DPK V16 CYN V312 OODor	1100-030
	(60–100, non-turbojet, water) ARCER SEY V268 HTO V139 BRIGS ACY V184 OOD	1100-030
	(110-170, non-turbojet) BOS LUCOS SEY067 SEY HTO V139 BRIGS ACY V184 OOD	1100-030
	or (110–170, jets) BOS LUCOS SEY067 SEY HTO	
	V139 BRIGS CEDAR LAKE-STAR	1100-030
	(60–100, water) ARCER SEY V268 HTO V139 MANTA V276 ARD	1100-030

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Terminals	Route or	(UTC)
	(110–170, water) BOS LUCOS SEY067 SEY HTO V139 MANTA V276 ARD	1100-0300
Newark (EWR) Newburgh (SWF) Trenton (TTN)	or (90-170, non-turbojet) V292 SAGES V408 LHY LVZ V613 FIC V149 MAZIE ARD	1100-0300 1100-0300 1000-0300 1100-0300
	or (110–170, water) BOS LUCOS SEY067 SEY HTO V139 MANTA V276 ARD	1100-0300
White Plains (HPN)	(90–170, non-turbojet) V292 SAGES V408 LHY LVZ V613 FJC V149 MAZIE ARD (AOA 110, 250 kts or less) PVD V146 BAF V106	1100-0300
	PWL V405 CASSH V123 HAARP or (AOA 110, more than 250 kts) PVD PUT BDL IGN V157 HARRP	1100-0300
Wilmington (ILG)	(60–100 single engine only) V34 SEY V268 HTO V46 DPK V16 CYN V312 OOD	1000-0300
	(60–100, non-turbojet, water) ARCER SEY V268 HTO V139 BRIGS ACY V184 OODor	1000-0300
	(AOB 100 all) PVD V146 BAF V292 SAGES V408 LHY V106 LVZ V29 DQ0or	1000-0300
	(110–170, non-turbojet, water) BOS LUCOS SEY067 SEY HTO V139 BRIGS ACY V184 00D or	1100-0300
	(110-170, jets) BOS LUCOS SEY067 SEY HTO V139 BRIGS CEDAR LAKE-STAR	1100-0300
CHARLESTON (CRW) Pittsburgh (PIT)	(60–170 incl) V115 JPU V117 WISKE WISKE–STAR	
KENNEDY (JFK)—See New York Metro Area LA GUARDIA (LGA)—See New York Metro		
Area		
MONTREAL (CYUL) Newark (EWR)	(80-170 incl, 250 kts or less) V282 SLK V203 ALB V489 COATEor	1100-0300
	(110-170 incl, more than 250 kts) V282 SLK V203 ALB V213 SAX	1100-0300
NEW HAVEN (HVN) Baltimore (BWI)	(at or above FL170) BEADS V139 AVALO V268 BAL	
NEW YORK METRO AREA From KENNEDY (JFK) only		
Albany (ALB) Baltimore (BWI)	(70–170 incl) BDR V487 CANAN V130 (90–170 incl, 250 kts or less) WHITE V1 LEEAH V268	1100-0300 1100-0300
	or (140–170 incl, more than 250 kts) RBV RBV274 MXE056 V378 BAL	1100-0300
Boston (BOS)	(110–170, turbojet) MERIT ORW PVD ORW-STAR	1100-0300
	or (110–170, non-turbojet) MERIT ORW V16 WOONS	1100-0300
	**************************************	1100-0200

6	PREFERRED IFR ROUTES	
- - - -	Route	Effective Times (UTC)
Burlington (BTV)		1100-0300
Hagerstown (HGR)		1100-0300
	(90–130 incl) COATE V188 LVZ V93 DUMMR V162 HAR V377	
Harrisburg (MDT)	. (90-130 incl) COATE V188 LVZ V93 DUMMR	
	V162 HWANG	1100-0300
	(140–160 incl) RBV V276 V162 HWANG	1100-0300
	(90-130 incl) COATE V188 LVZ V93 DUMMR	
	V162 HYPER V143 ROBRT AML	1100-0300
Montreal (CYUL)		1100-0300
Norfolk (ORF)	. (90–170 incl, more than 250 kts) WAVEY PLUME V139 CCV	1100 0200
	or	1100-0300
	(90-170 incl, 250 kts or less) WHITE V1 CCV	1100-0300
Portland (PWM)		1100-0300
Providence (PVD)		4400 00-
Rochester (ROC)	V374 MINNK	1100-0300 1100-0300
noonester (noo)	or	1100-0300
	(140-170 incl) GAYEL V374 CFB V252 GIBBE	1100-0300
Rome (RME)		1100-0300
Syracuse (SYR)		1100-0300
	0r (140, 170 incl) GAVEL V274 CEP	1100 020
Toronto (CYYZ)	(140–170 incl) GAYEL V374 CFB	1100-0300 1100-0300
	or	1100-0300
	(140-170 incl) GAYEL V374 CFB V270 ULW V36	1100-0300
Washington Dulles (IAD)		
	MULRR AML	1100-0300
	(140–170 incl, props) RBV V276 V39 LRP V143	
	MULRR AML	1100-0300
Washington Natl (DCA)	. (80-170 incl, 250 kts or less) V1 LEEAH V229	
	V308 OTT	1100-0300
	or (80, 170 incl. more than 250 kts) WAVEY BLUME	
	(80–170 incl, more than 250 kts) WAVEY PLUME V308 BILIT	1100-0300
LA QUADDIA (LCC)	TOO DIETI	1100-0300
om LA GUARDIA (LGA) only	(70–170 incl) RDR V/87 CANAN V/120	1100 0200
Albany (ALB)		1100-0300 1100-0300
Binghamton (BGM)		1100-0300
Boston (BOS)		1100-030
	0r	
	(110-170 non-turbojet) MERIT ORW V16 WOONS	1100-030
Cleveland (CLE)	. (90–100 incl) LANNA V30 SEG V6 YNG CXR	1100-030
	or	
	(140-170 incl.) ELIOT V39 ETX V30 SEG V6 YNG	
Floring (FLAN)	CXR	1100-030
Elmira (ELM) Harrisburg (CXY)		1100-030 1100-030
mamaduig (OAT)	or	1100-030
	(110-170 incl) ELIOT V39 ETX V162 HWANG	1100-0300
Manchester (MHT)	MERIT HFD V229 GDM V106	1100-0300
Martha's Vineyard (MVY)	. (110-170 incl) BAYYS V229 SEALL V188 GON V374	1100-0300
Montreal (CYUL)		1100-0300
. ,	NAPEE	1100-0300
Nantucket (ACK)	. (110-170 IIICI) BATTO V223 SEALE V100 GOIV	
Nantucket (ACK)	V374 ORW130 DEEPO V46	1100-0300
Nantucket (ACK) Norfolk (ORF) Pittsburgh (PIT)	V374 ORW130 DEEPO V46	1100-0300 1100-0300

rr	KELEKKED ILK KOOIE2	301
Terminals	Route	Effective Times (UTC)
Terminais	or	(010)
	(140-170 incl) ELIOT V39 ETX V30 PSB	
Portland (PWM)	GRACE-STAR(110-170 all) MERIT HFD EEN CON CON061	1100-0300
Providence (PVD)	NEETS	1100-0300
Richmond (RIC)	V374 MINNK(90–170 incl) WHITE V1 CCV HPW	1100-0300 1100-0300
Rochester (ROC)	(90–170 incl) HAAYS HUO V252 GIBBE	1100-0300
Rome (RME)	HAAYS V273 V449 DNY V249 UCA	1100-0300
Syracuse (SYR)	(90–170 incl, less than 250 kts) HAAYS HU0 V252 CFB V29	1100-0300
	(90–170 incl, 250 kts plus) GAYEL CFB	1100-0300
Toronto (CYYZ)	(90-170 incl) COATE V126 LHY ULW V36	1100-0300
Washington Dulles (IAD)	(140–170 incl, jets) PARKE V457 LRP V143 MULRR AML	1100-0300
	or (140–170 incl, props) ELIOT V39 LRP V143	
	MULRR AMLor	1100-0300
	(90-130 incl, props) LANNA V30 ETX V39 LRP	
	V143 ROBRT AML	1100-0300
Washington Natl (DCA) Wilkes-Barre/Scranton (AVP)	(90-170 incl , props) BIGGY V3 MXE V378 BAL (90-170 incl) COATE V188 LVZ	1100-0300 1100-0300
From NEWARK (EWR) only	(90-170 IIICI) COATE V188 EVZ	1100-0300
Albany (ALB)	(70-170 incl, turbojets) BDR V487 CANAN V130 . or	1100-0300
	(70-170 less than 210 kts) BREZY V39 SOARS	4400 0000
	V487 CANAN V130or (70-170, greater than 210 kts) HAAYS V273	1100-0300
	V449	1100-0300
Baltimore (BWI)	(90-170 incl) BIGGY V3 MXE V378	1100-0300
Bedford (BED)	(110-170 incl) MERIT HFD GRAYM-STAR	1100-0300
Binghamton (BGM)	(90-170 incl) HAAYS HUO V252 CFB (110-170, turbojet) MERIT ORW PVD ORW-STAR .	1100-0300 1100-0300
	(110-170, non-turbojet) MERIT ORW V16 WOONS	
		1100-0300
Buffalo (BUF)	(90- 170 incl) COATE V126 LHY ULW ULW306	1100 0200
Burlington (BTV)	BENEE(110-170 incl) GREKI V39 SOARS V487	1100-0300 1100-0300
Cleveland (CLE)	(90-100 incl) LANNA V30 SEG V6 YNG CXR	1100-0300
	(140-170 incl) ELIOT V39 ETX V30 SEG V6 YNG	
Elmira (ELM)	CXR(90-170 incl) COATE V126 LHY ULW	1100-0300 1100-0300
Harrisburg (CXY)	(90-100 incl) LANNA V30 ETX V162 HWANG	1100-0300
Hyannis (HYA)	(110-170 incl) ELIOT V39 ETX V162 HWANG (110-170 incl) BAYYS V229 SEALL V188 GON	1100-0300
Manchester (MHT)	V374 MVY MERIT HFD V229 GDM V106	1100-0300 1100-0300
Martha's Vineyard (MVY)	(110-170 incl) BAYYS V229 SEALL V188 GON V374	1100-0300
Martinsburg (MRB)	(90-100) LANNA V30 ETX V39	1100-0300
Martin State (MTN)	(110-170 incl) ELIOT V39 (90-170 incl) BIGGY V3 MXE V408 VINNY V93	1100-0300
Montreal (CVIII.)	SKILS	1100-0300
Montreal (CYUL)	(70-170 incl) BDR V91 BOWAN V487 BTV V91 NAPEE(110-170 incl) BAYYS V229 SEALL V188 GON	1100-0300
	V374 ORW130 DEEPO V46	1100-0300
Norfolk (ORF)	(90-170 incl) WHITE V1 CCV	1100-0300

Route

(110-170 incl) MERIT ORW V16 WOONS

(90-100 incl) LANNA V30 PSB GRACE-STAR

(140-170 incl.) ELIOT V39 ETX V30 PSB

Effective Times

(UTC)

1100-0300

1100-0300

Terminals

Norwood (OWD)

Pittsburgh (PIT)

	(140-170 incl.) ELIOT V39 ETX V30 PSB	
	GRACE-STAR	1100-0300
Portland (PWM)	(110-170, all) MERIT HFD EEN CON CON061	
	NEETS	1100-0300
Providence (PVD)	(110-170 incl) BAYYS SEALL V188 GON V374	
	MINNK	1100-0300
Richmond (RIC)	(90-170 incl) WHITE V1 CCV HPW	1100-0300
Rochester (ROC)	(90-170 incl) HAAYS HUO V252 GIBBE	1100-0300
Rome (RME)	(90-170, all others) HAAYS V273 V449 DNY	
	V249 UCA	1100-0300
Syracuse (SYR)	(90-170 incl, less than 250 Kts) HAAYS HUO	1100 0000
Cyracuse (OTK)		1100-0300
	V252 CFB V29	1100-0300
		4400 0200
Taranta (0)(//7)	(90-170 incl, 250 Kts plus) GAYEL CFB	1100-0300
Toronto (CYYZ)	(90-170 incl) COATE V126 LHY ULW V36	1100-0300
Washington Dulles (IAD)	(140-170 incl, jets) PARKE V457 LRP V143	
	MULRR AML	1100-0300
	or	
	(140-170 incl, props) ELIOT V39 LRP V143	
	MULRR AML	1100-0300
	or	
	(90-130 incl, props) LANNA V30 ETX V39 LRP	
	V143 MULRR AML	1100-0300
Washington Natl (DCA)	(90-170 incl , props) BIGGY V3 MXE V378 BAL	1100-0300
Wilkes-Barre/Scranton (AVP)	(90-170 incl) COATE V188 LVZ	1100-0300
- WHITE DI AINO HIDAN		
From WHITE PLAINS (HPN) only	(70, 470 (mal) DDD V407 04NAN V420	1100 0200
Albany (ALB)	(70–170 incl) BDR V487 CANAN V130	1100-0300 1100-0300
Baltimore (BWI) Binghamton (BGM)	(90-170 incl) BIGGY V3 MXE V378 BAL	
Boston (BOS)	(110-170 turbojet) MERIT ORW PVD ORW-STAR .	1100-0300
B0St011 (B0S)		1100-0300
	Or (440, 470,, 4, 4, MEDIT OFW.)/40, WOONG	
	(110-170 non-turbojet) MERIT ORW V16 WOONS	4400 0000
01 1 1 (015)	(0.0 470) N 0.0 475 N 0.0 4 1 1 N V V 5 0 0.0 1 N 0 V 1 1 1	1100-0300
Cleveland (CLE)	(90-170 incl) COATE V126 LHY V58 PSB V6 YNG	
	CXR	1100-0300
Elmira (ELM)	(90-170 incl) COATE V126 LHY ULW	1100-0300
Harrisburg (CXY)	(90–100) LANNA V30 ETX V162 HWANG	1100-0300
	or	
	(110-170 incl) ELIOT V39 ETX V162 HWANG	1100-0300
Manchester (MHT)	MERIT HFD V229 GDM V106	1100-0300
Martha's Vineyard (MVY)	(110-170 incl) BAYYS V229 SEALL V188 GON	
	V374	1100-0300
Montreal (CYUL)	(70-170 incl) GREKI V39 SOARS V487 BTV V91	
	NAPEE	1100-0300
Nantucket (ACK)	(110-170 incl) BAYYS V229 SEALL V188 GON	
	V374 ORW130 DEEPO V46	1100-0300
Norfolk (ORF)	(90-170 incl) WHITE V1 CCV	1100-0300
Norwood (OWD)	(110-170 incl) MERIT ORW V16 WOONS	1100-0300
Pittsburgh (PIT)	(90-170 incl) COATE V126 LHY V58 PSB	
· recoverige (i iii)	GRACE-STAR	1100-0300
Portland (PWM)	(110–170, all) MERIT HFD EEN CON CON061	1100-0300
Tordana (T WW)		1100 0200
Dravidana (DVD)	NEETS	1100-0300
Providence (PVD)	(110-170 incl) BAYYS V229 SEALL V188 GON	
	V374 MINNK	1100-0300
Richmond (RIC)	(110-170 incl) WHITE V1 CCV HPW	1100-0300
Rochester (ROC)	(90-170 incl) HAAYS HUO V252 GIBBE	1100-0300
Syracuse (SYR)	(90-130 incl) HAAYS HUO V252 CFB V29	1100-0300
	or	
	(140-170 incl) HAAYS HUO V252 CFB	1100-0300
Toronto (CYYZ)	(90-170 incl) COATE V126 LHY ULW V36	1100-0300

Terminals	Route	Effective Times (UTC)
Washington Dulles (IAD)	(140–170 incl, jets) PARKE V457 LRP V143 MULRR AML	1100-0300
	(140–170 incl, props) ELIOT V39 LRP V143 MULRR AML	1100-0300
Washington Natl (DCA) Wilkes-Barre/Scranton (AVP)	(90–130 incl, props) LANNA V30 ETX V39 LRP V143 MULRR AML(90–170 incl , props) BIGGY V3 MXE V378 BAL (90–170 incl) COATE V188 LVZ	1100-0300 1100-0300 1100-0300
NORFOLK METRO AREA		
Baltimore (BWI)	HPW V213 PXT V93 GRAC0(90–170 incl, 250 kts or less) SCHOL SBY200	1100-0300
	V139 SIE V44 PANZE V184 ZIGGI or (90–170 incl. more than 250 kts) SCHOL	1100-0300
La Guardia (LGA)	SBY200 V139 SIE CAMRN-STAR(90–170, non-jet) SCHOL SBY200 SBY V29 DQ0	1100-0300
	V479 RUUTH V123 RENUEor	1100-0300
Newark (EWR)	(90–170 incl, more than 250 kts, non-jet) SCHOL SBY200 SBY V29 V445 NANCI(110–170 incl, turbojets only) HPW V213 PXT	1100-0300
Newark (EWK)	DYLIN-STARor	1100-0300
	(non–jets, 180 kts or greater) HPW V213 PXT PXTØ23 GATBY V445 DQO V479 RUUTH V123 RBV RBV005 OWBIE	1100-0300
	or (50–90 incl, non–jet, less than 180 kts) SCHOL	
Philadelphia (PHL)	SBY V29 MXE ARD V214 METRO(70–170 incl) SCHOL SBY200 V139 SWL SWL034 RADDS VCN-STAR	1100-0300 1100-0300
Teterboro (TEB)	(advanced navigation, turbojets only) HPW V213 PXT JAIKE-STAR	1100-0300
	or (turboprop) HPW V213 PXT PXT023 GATBY V445	
	DQ0 DQ0029 V3 SBJ TEBor (piston) SCHOL SBY V29 MXE V3 SBJ TEB	1100-0400 1100-0400
Washington Dulles (IAD)	(Jet only) HPW RIC COATT-STARor	1100-0400
	(Non-Jet) HPW RIC RIC345 COATT V155 BRV BRV007 BARIN	1100-0300
Washington Natl (DCA)	HPW RIC IRONS-STAR	1100-0300
PHILADELPHIA METRO AREA		
Binghamton (BGM)	(90–170 incl) PTW PTW320 V499 CFB(90–170 incl) DITCH V312 DRIFT V308 ORW V16	1100-0300 1100-0300
Buffalo (BUF)	W00NS(90–170 incl) PTW PTW320 V499 V164 FQM V31 ULW ULW306 BENEE	1100-0300
Cleveland (CLE)	(60–170 incl) MXE V474 IHD V119 GALLS V214 AIR V8 BSV KEATN-STAR	1100-0300
Detroit Metro-Wayne Co (DTW)	(60-170 incl) PTW PTW320 V276 RAV V170 ERI SPICA-STAR	1100-0300
Detroit Satellites: Coleman A Young (DET), Windsor (CYQG), Pontiac (PTK), Willow Run	DTH DTHOOG VOTO DAVIATO FRI	

Norfolk (ORF) (80–170 incl) OOD SBY V1 CCV Richmond (RIC) (80–170 incl) OOD OOD198 V229 PXT V16

(YIP), Ann Arbor (ARB)

Elmira (ELM)

Kennedy (JFK)

PTW PTW320 V276 RAV V170 ERI.....(90–170 incl) PTW PTW320 V499 V164 FQM V31

(110–170, turbojets only) DITCH V312 V44
CAMRN

ULW

1100-0300

1100-0300

1100-0300

1100-0300

T erminals	Route	Effective Times (UTC)
Syracuse (SYR)	(90–170 incl) PTW PTW320 V499 CFB V29 (90–170 incl) PTW PTW320 V499 V164 FQM V31	1100-0300
Washington Dulles (IAD)	ULW V36(90–170 incl, turbojets only) MXE V474 V143	1100-0300
	MULRR AML	1100-0300
Washington Natl (DCA)	(Turbojets only) MXE V378 BAL(90–170 incl, props) DITCH V312 DRIFT V139	1100-0300
Windsor Locks (BDL)	RICED RICED-STAR(90–170 incl) DITCH V312 DRIFT V139 MAD193 MAD MAD341 BRISS	1100-0300
PITTSBURGH METRO AREA (PIT)	MAD MADO-1 BRIOG	
Baltimore (BWI)	(90–170 incl) MGW V44 MRB V3 EMI (60–170) TON V35 ULW V72 ALB V2 GDM	1100-0300
2001011 (200)	GDM-STAR	1100-0300
Buffalo (BUF)	(60-170 incl) EWC FKL DKK DKK020 WELLA	1100-0300
Chicago Midway (MDW)	(60-170 incl) BSV V8 FDY V422 CGT	1100-0300
Chicago O'Hare (ORD)	BSV V8 FDY V422 OXI V340 BEARZ	1100-0300
Cleveland (CLE)	(60-170 incl) BSV KEATN-STAR	1100-0300
Columbus (CMH/TZR)	(60-170 incl) TVT V43 APE	1100-0300
Detroit Metro-Wayne Co (DTW)	(60–170 incl) BSV DJB DJB314 GEMNI GEMNI–STAR	
Detroit Satellites:		
Ann Arbor (ARB), Willow Run (YIP) Coleman A Young (DET), Pontiac (PTK),	(60-170 incl) EWC V37 ERI V221 V2	1100-0300
Windsor (CYQG)	(60-170 incl) BSV V40 DJB LLEEO-STAR	1100-0300
Harrisburg (MDT)	(60-170 incl) REC V210 HAR	1100-0300
Indianapolis (IND)	(60-170 incl) TVT V210 MIE CLANG-STAR	1100-0300
Kennedy (JFK)	(90-170 incl) TON PSB V6 SBJ V232 COL	1100-0300
La Guardia (LGA)	TON PSB V6 LIZZI	
Newark (EWR)	(70-170 incl, 250 kts or less) TON V35 PSB V58 FQM PENNS-STAR	1100-0300
Philadelphia (PHL)	(60-170 incl) REC V210 BUNTS	1100-0300
Washington Natl (DCA)	(90-170 incl) MGW V144 ESL V4 AML (60-170 incl, props) TON PSB V58 IGN NOBBI-	1100-0300
	STAR	1100-0300
PROVIDENCE (PVD)	(110, 170 incl. more than 250 kts) BUT PDI	
La Guardia (LGA)	(110–170 incl, more than 250 kts) PUT BDL BDL255 VALRE V157 HAARPor	1100-0300
	(110-170 incl, less than 250 kts) V146 BAF	
Newark (EWR)	V106 PWL V405 CASSH V123 HAARP(110–170 incl, turbojets) PUT BDL SHAFF–STAR .	1100-0300 1100-0300
	or	
	(110–170 incl, non–turbojet) PUT V146 BAF V292 V489 COATE	1100-0300
ROCHESTER (ROC)		
Baltimore (BWI)	(90-170 incl) V147 ULW V31 HAR V265 EMI (60-170 incl) FAULT V31 BEEPS V14 GDM	1100-0300
Detroit Metro Wayne Co (DTW)	GDM-STAR(60–170 incl) V31 AIRCO BUF V2 YQO	1100-0300
Detroit Satellites:	SPICA-STAR	1100-0300
Coleman A Young (DET), Windsor CYQG), Pontiac (PTK), Willow Run (YIP),		
nn Arbor (ARB) Kennedy (JFK)	(60–170 incl) V31 AIRCO BUF V2 YQ0 (90–170 incl, props) V34 BEEPS RKA V433 PWL	1100-0300
Philadelphia (PHL)	V44 DPK(70–170 incl) V147 ULW V31 FQM MIP RAV V170	1100-0300
Washington Natl (DCA)	V210 BUNTS(90–170 incl, jet only) V147 ULW V35 PSB	
	PSB149 SHILO V93 BALor	1100-0300
	(90–170 incl, non-jet) V147 ULW V31 HAR V265 KRANT	1100-0300

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Terminals	Route	Times (UTC)
		(0.0)
SYRACUSE (SYR) Boston (BOS)	(60-170 incl) V14 GDM GDM-STAR	1100-0300
Kennedy (JFK)	(70–170 incl, non-jet) V433 LOVES V44 DPK (110–170 incl, turbojets) V273 HNK SHAFF-STAR	1100-0300
, ,	or	1100-0300
	(70–170 incl, all other types) V273 HNK V167 WEARD V489 COATE	1100-0300
WASHINGTON/BALTIMORE METRO AREA From BALTIMORE (BWI) only		
Albany (ALB)	V93 LRP V499 CFB V270 DNY V449	1100-0400
Binghamton (BGM)	V93 LRP V499 CFB (90–170 incl props) PALEO-DP SIE V308 ORW	1100-0300
Bridgeport (BDR)	V16 WOONS	1100-0300
Buffalo (BUF)	MAD193 KEYED V93 SHILO PSB149 KOLBY V265 HAR V31 FQM V164	1100-0300 1100-0300
Charlottesville (CHO)	(below 110) V44 MRB V143 CEROL	1100-0300
Cleveland (CLE)	(110–170) FLUKY GVE MRB V501 THS V469 JST V297 TALLS V10 YNG	1100-0300
Detroit Metro-Wayne Co (DTW)	CXR(turbojets only) MRB V501 THS V469 JST EWC	1100-0300
	or	
Datus it Catallitas	(props only) MRB V501 THS V469 JST EWC YNG V6 DJB SKY SKY292 YQG197 LYNTN	
Detroit Satellites: Ann Arbor (ARB), Willow Run (YIP) Coleman A Young (DET), Pontiac (PTK),	MRB V501 THS V469 JST EWC ERI	
Windsor (CYQG)	MRB V501 THS V469 JST EWC YNG V6 V297 LLEEO LLEEO-STAR	
Greensboro (GSO)	(70–170 incl, non-jet) V44 MRB V143 LYH V222 HENBY	0000–2359
Hartford (HFD)	(90–170 incl) PALEO-DP V308 GON V58(90–170 incl) PALEO-DP SIE V139 SARDI CCC	1100-0300 1100-0300
Kennedy (JFK)	(90–170 incl, 250 kts or greater) PALE0-DP ACY V229 PANZE V44 CAMRNor	1100-0300
	(90-170 incl, less than 250 kts) PALEO-DP ACY	
Manage III.a. (TMO)	V184 ZIGGI	1100-0300
Knoxville (TYS) La Guardia (LGA)	V44 MRB V143 MOL ROA V16 (Turbojets only) PALEO-DP V44 AGARD KORRY-STAR	1100-0300 1100-0400
	or (Non-turbojets) SWANN-DP DQO V479 RUUTH	1100 0400
Newtoniert (ACIO	V123 RENUE	1100-0300
Nantucket (ACK)	(90–170 incl) POLLA V312 PALEO V44 SIE V139 HTO V46	1100-0300
	or (70) POLLA V312 GOLDA V268 ENO V16 JFK V229 BDR V475 V188 GON V374 MVY	1100_0300
Newark (EWR)	(110–170 incl, turbojets only) SWANN–DP V445 DOO DYLIN–STAR	1100-0300 1100-0300
	or (110–170 incl, non-turbojet, greater than 180	1100 0000
	kts) SWANN-DP V445 DQ0 V479 RUUTH V123	4400 0000
Newburgh (SWF) New Haven (HVN)	RBV RBV005 OWBIE	1100-0300 1100-0300
	MAD193 KEYED(70–170 incl. non jet) V93 PXT V16 COLIN V33	1100-0300
Norfolk (ORF)	V286 STEIN	1100-0300

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Terminals	Route	Effective Times (UTC)
Torringo	(70–170 jets) DAILY V33 V286 STEIN	1100-0300
Philadelphia (PHL)		1100-0300
Pittsburgh (PIT)	(90-170 incl) MRB IHD NESTO-STAR	1100-0300
Poughkeepsie (POU)		1100-0300
Rochester (ROC)	(non-jet) V93 SHILO PSB149 KOLBY V265 HAR	1100-0300
	V31 FQM V423 CFB V29	1100-0300
Teterboro (TEB)	or	1100-0300
	(non-jets, 180 kts or greater) SWANN V445 DQ0	4400 0000
White Plains (HPN)	DQ0029 V3 SBJ TEB	1100-0300 1100-0300
	(70) V93 LRP ETX FJC BWZ SAX V39 BREZY	1100-0300
From WASHINGTON DULLES INTL (
Bridgeport (BDR)	(90-170 incl) WOOLY V214 BAL V44 SIE V139	
	RICED MAD193 KEYED	1100-0300
Buffalo (BUF)		
Detucit Metre Weine Co (DTM)	ELZ V164	0000–2359
Detroit Metro-Wayne Co (DTW)	(Turbojets only) MRB V501 THS V469 JST EWC YNG V6 DJB GEMNI -STAR	
	(Non-turbojet) MRB V501 THS V469 JST EWC YNG	
	V6 DJB SKY SKY292 YQG197 LYNTN	
Detroit Satellites: Ann Arbor (ARB), Willow Run (YI		
Coleman A Young (DET), Pontia Windsor (CYQG)		
	LLEEO LLEEO-STAR	
Greensboro (GSO)	(70-170 incl, non-jet) CSN V140 MOL V143 LYH	
	V222 HENBY	0000-2359
Islip (ISP)		4400 0000
Kennedy (JFK)	SARDI CCC	1100-0300
Refilledy (JFR)	DONIL V229 PANZE V44 CAMRN	1100-0300
	(90-170 incl, less than 250 Kts) WOOLY V44	
	DONIL V229 ACY V184 ZIGGI	1100-0300
La Guardia (LGA)	(110-170 incl, turbojets only) PALEO V44 AGARD KORRY-STAR	1100-0300
	or (00, 470 incl. man truth sixts) W001 V V04 4 D00	
	(90–170 incl, non turbojets) WOOLY V214 DQ0 V479 V123 RENUE	1100-0300
Newark (EWR)		1100-0300
	DQO DYLIN–STAR	1100-0300
	(110-170 incl, non-turbojet, more than 180 kts)	
	WOOLY V214 SWANN RUUTH-STAR	1100-0300
Newburgh (SWF)		
New Haven (HVN)		1100-0300
Dhiladalahia (D.U.)	RICED MAD193 KEYED	1100-0300
Philadelphia (PHL) Pittsburgh (PIT)		1100-0300 1100-0300
Raleigh-Durham (RDU)	,	1100-0300
Rochester (ROC)		1100 0000
Syracuse (SYR)	GIBBE	1100-0300
	SEG V31 FQM V423 CFB V29	1100-0300
	0r	
	(jet) MRB V501 HGR V377 AML009 SEG230 SEG	1100 0200
Teterboro (TEB)	V31 FQM V423 CFB(Jets, Advanced Nav Only) SWANN FUBRR JAIKE	1100-0300
	(RNAV)-STAR	1100-0300
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Effective Times

Terminals	Route	(UTC)
	(non-jet, 180 kts or greater) SWANN V445 DQ0	(0.0)
	DQ0029 V3 SBJ TEB	1100-0300
White Plains (HPN)	(90-170 incl) WOOLY V44 SIE V139 RICED	
	RICED-	
	STAR	1100-0300
	Or (70) MPD V504 HOD V077 HAD V400 FTV FIG	
	(70) MRB V501 HGR V377 HAR V162 ETX FJC	4400 0000
	BWZ SAX V39 BREZY	1100-0300
From WASHINGTON NATIONAL (DCA) only		
Albany (ALB)	KRANT V265 EMI V457 LRP V499 CFB V270 DNY	
Allertane (ADE)	V449	1100-0300
Allentown (ABE)	KRANT V265 EMI V457 LRP V39 ETX FJC KRANT V265 V214 MRB JST A00	1100-0300 1100-0300
Atlantic City (ACY)	(90–170) PALEO V44 SIE	1100-0300
returned only (not)	or	
	(70) POLLA V312 GOLDA V268 LEEAH	1100-0300
Barnes (Westfield) (BAF)	(90-170) POLLA V312 PALEO V44 SIE V139	
	RICED MAD193 MAD MAD341 BRISS	1100-0300
	or	
	(70) PALEO V312 GOLDA V268 ENO V16 JFK	
D 15 1 (DED)	V229 BDR BDR014 JUDDS BAF	
Bedford (BED)	POLLA V312 PALEO V44 SIE V308 ORW	4400 0000
	GRAYM-STARor	1100-0300
	(70) PALEO V312 GOLDA V268 ENO V16 JFK	
	V229 HFD HFD053 DREEM	1100-0300
Binghamton (BGM)	KRANT V265 EMI V457 LRP V499 CFB	1100-0300
Boston (BOS)	(90-170 incl) POLLA V312 PALEO V44 SIE V308	
	ORW V16 WOONS	1100-0300
	or	
	(70) PALEO V312 GOLDA V268 ENO V16 JFK	
	V229 HFD V3 WOONS	1100-0300
Bridgeport (BDR)	KRANT V265 EMI V457 LRP V93 LHY V106 PWL	
	V44 DENNA	1100-0300
	or (90–170) POLLA V312 PALEO V44 SIE V139	
	RICED MAD193 KEYED	1100-0300
	or	1100-0300
	(70) PALEO V312 GOLDA V268 ENO V16 JFK	
	V229 BDR	1100-0300
Buffalo (BUF)	EMI V265 HAR V31 FQM V164	1100-0300
Burlington (BTV)	KRANT V265 EMI V457 LRP V93 LHY V449 ALB	1100-0300
Butler (BTP)	KRANT V265 EMI V268 NESTO	1100-0300
Charleston (CRW)	LDN LDN275 V286 EKN V4 HVQ	1100-0300
Clarksburg (CKB)	LDN LDN275 V286 EKN CKB KRANT V265 V214 MRB V501 THS V469 JST	1100-0300
Cleveland (CLE)	V297 TALLS V10 YNG CXR	1100 0200
Concord (CON)	(90–170) POLLA V312 PALEO V44 SIE V139 HTO	1100-0300
Concord (CON)	V308 ORW V14 GDM V39	1100-0300
Detroit Metro-Wayne Co (DTW)	(Turbojet only) KRANT V265 V214 MRB V501 THS	1100 0000
,,	V469 JST EWC YNG V6 DJB GEMNI-STAR	
	or	
	(Non-turbojet only) KRANT V265 V214 MRB V501	
	THS V469 JST EWC YNG V6 DJB SKY SKY292	
	YQG197 LYNTN	1100-0200

		Effective
erminals Detroit Satellites:	Route	(UTC)
Ann Arbor (ARB), Willow Run (YIP)	KRANT V265 V214 MRB V501 THS V469 JST EWC ERI	
Coleman A Young (DET), Pontiac (PTK),		
Windsor (CYQG)	KRANT V265 V214 MRB V501 THS V469 JST EWC YNG V6 V297 LLEEO LLEEO-STAR	
Dover (AFB (DOV)	(70) PALEO V312 GOLDA V268 ENO DOV	
Erie (ERI)	KRANT V265 V214 MRB JST CIP V276 (90–170) PALEO V44 DONIL V229 PANZE V44 CAMRN	1100-03
	or (70) POLLA V312 GOLDA V268 ENO V16 JFK or	1100-03
	(90-170 , less than 250 kts) PALEO V44 DONIL	
	V229 ACY V184 ZIGGI FRG	
Greensboro (GSO)	(70–170 incl, non–jet) CSN V140 MOL V143 LYH V222 HENBY	0000-23
Groton (GON)	(90–170) POLLA V312 PALEO V44 SIE V139 HTO	0000-20
, ,	HT0034 MONDI	1100-03
	07 (70) DOLLA V242 COLDA V268 ENO V46 JEK	
	(70) POLLA V312 GOLDA V268 ENO V16 JFK V229 BDR MAD MAD126 MONDI	
Hagerstown (HGR)	V265 EMI EMI325 HGR089	1100-03
Harrisburg (MDT/CXY)	KRANT V265 EMI V265	1100-03
Hartford (HFD)	(90–170) POLLA V312 PALEO V44 SIE V139	1100.00
	RICED MAD193 MAD V1or	1100-03
	(70) POLLA V312 GOLDA V268 ENO V16 JFK	
Islip (ISP)	(90–170) POLLA V312 PALEO V44 SIE V139	4400.00
	SARDI CCCor	1100-03
	(70) POLLA V312 GOLDA V268 ENO V16 JFK	1100-03
Kennedy (JFK)	(90–170 incl, 250 kts or greater) POLLA V312	
	PALEO V44 DONIL V229 PANZE V44 CAMRN or	1100-03
	(90-170 incl, less than 250 kts) POLLA V312	
	PALEO V44 DONIL V229 V184 ZIGGI	1100-03
La Guardia (LGA)	PALEO V44 AGARD KORRY-STAR(90-170) POLLA V312 PALEO V44 SIE V139 HTO	1100-03
Martia S villeyard (MVT)	V46 FLAPE	1100-03
	or	
	(70) POLLA V312 GOLDA V268 ENO V16 JFK V229 BDR MAD V475 V188 GON V374	1100-03
Morgantown (MGW)	LDN V144	1100-0
Nantucket (ACK)	(90-170) POLLA V312 PALEO V44 SIE V139 HTO	
	V46	1100-03
	or (70) POLLA V312 GOLDA V268 ENO V16 JFK	
	V229 BDR V475 MAD V475 V188 GON V374	
Newsell (EMD)	MVY	1100-03
Newark (EWR)	(advanced navigation, turbojets only) SWANN V445 DQO DYLIN-STAR or	1100-03
	(piston) SWANN V445 DQO V29 MXE ARD V214	
	METRO	1100-03
	or (turboprops) SWANN V445 DQO V479 RUUTH	
	V123 RBV RBV005 OWBIE	1100-03
Newburgh (SWF)	KRANT V265 EMI V457 LRP V93 LHY V408 V483	1100 00
New Haven (HVN)	FILPS(90–170) POLLA V312 PALEO V44 SIE V139	1100-03
	RICED MAD193 KEYED	1100-03
	OF	
	(70) POLLA V312 GOLDA V268 ENO V16 JFK V229 BDR	1100-03
Norfolk (ORF)	DAILY V33 V286 STEIN	1100-03

NE. 23 SEP 2010 to 18 NOV 2010

Terminals	Route	Effective Times (UTC)
Philadelphia (PHL)	(110 , jets) MITCH V445 DQO	1100-0300
Pittsburgh (PIT)	(Props to PHL and Satellites) PALEO V170 DQO KRANT V265 V214 MRB V214 GRV IHD	1100-0300
Portland (PWM)	NESTO-STAR(90-170) POLLA V312 PALEO V44 SIE V139 HTO	1100-0300
	ORW GDM CON CON061 NEETS or (70) POLLA V312 GOLDA V268 ENO V16 JFK	1100-0300
Poughkeepsie (POU)	V229 BDR MAD V1 HFD V229 GDM V106 ENE KRANT V265 EMI V457 LRP V93 LHY V408 V483	1100-0300
Providence (PVD)	FILPS(90–170) POLLA V312 PALEO V44 SIE V139 HTO	1100-0300
	HT0070 PVD195 or (90–170 advanced RNAV only) POLLA V312 PALEO V44 SIE V139 HTO JORDAN	1100-0300
	(RNAV)-STAR	1100-0300
Rochester (ROC)	KRANT V265 EMI V265 HAR V31 GIBBE	1100-0300
Rome (RME)	KRANT V265 EMI V457 LRP V499 CFB UCA	1100-0300
Syracuse (SYR)	KRANT V265 HAR V31 FQM V423 CFB V29 (advanced navigation, turbojets only) SWANN	1100-0300
	JAIKE-STARor	1100-0400
White Plains (HPN)	(turboprop) SWANN V445 DQO DQ0029 V3 SBJ (70) KRANT V265 EMI LRP ETX FJC BWZ SAX V39 BREZY	1100-0400
	or (90–170) PALEO V44 SIE V139 RICED RICED-STAR	1100-0300
	or (70, less than 180 kts) POLLA V170 ODESA MXE	
William Darra (Carantan (AVD)	ARD V214 METRO V249 SAX V39 BREZY	1100-0300
Wilkes Barre/Scranton (AVP)	KRANT V265 EMI V457 LRP V93 LVZ (210 kts or less) KRANT V265 EMI V457 V93 LHY	1100-0300
	V106 PWL V34 M00NI V58 JUDDS or (90–170) POLLA V312 PALEO V44 SIE V139 HT0	1100-0300
	V308 ORW V130or	
	(70) POLLA V312 GOLDA V268 ENO V16 JFK	
MINDCOD I OCKE (DDI)	V229 BDR BDR014 JUDDS V419 BRISS BDL	1100-0300
WINDSOR LOCKS (BDL) Islip (ISP)	(110-170 incl) HFD V58 GON V308 BOROS CCC .	1000-0300
NE Philadelphia (PNE)	(110–170 mcl) The V38 GON V308 BORO3 CCC . (110–170, non–turbojet) HFD V58 THUMB HTO	1000 0000
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	V139 BRIGS CEDAR LAKE-STAR or	1100-0300
	(110–170, water) BOS LUCOS SEY067 SEY HTO V139 MANTA V276 ARDor	1100-0300
	(90–170, non-turbojet) V292 SAGES V408 LHY LVZ V613 FJC V149 MAZIE ARD	1100-0300
	(90–170, jets) V292 SAGES V408 LHY LVZ V29 ETX V30 V149 MAZIE ARD	1100-0300
Newark (EWR)	(70–170 incl, 250 kts or less) SASHA V292 V489 COATE	1100-0300
	or (110–170 incl, more than 250 kts) SASHA V292	4400 0000
Philadelphia (PHL)	V312 SAX(110–170 incl, non-turbojet) HFD V58 THUMB	1100-0300

or

REFERRED IFR ROUTES	
Pouto	Effective Times
(60-170 incl, props less than 210 kts) SASHA	(UTC)
V149 MAZIE	1100-030
(60–170 incl, props 210 kts plus) SASHA V292	
MAZIE	1100-030
(60-170 incl, turbojets) SASHA V292 SAGES	1100-030
(110-170, water) BOS LUCOS SEY067 SEY HTO	1100-03
or	
LVS V613 FJC V149 MAZIE ARD	1100-03
(90–170, jets) V292 SAGES V408 LHY LVS V29	1100-03
(110–170, non–turbojet) HFD V58 THUMB HTO V139 BRIGS ACY V184 OOD	1100-030
or (110–170, non–turbojet) HFD V58 THUMB HTO	
ALTITUDE DIRECTIONAL ROUTES	1100-030
	Effective Times
Route	(UTC)
	1100-03
c overflying Washington Metro Area	1100-030
HAR V377 MOL	1100-030
LRP V93 PXT	1100-030 1100-030
MXE V474 V377 HGR	1100-03
Metro Area from over ENO landing Charlottesville, VA o	
ENO V213 GVE098 GVE thence direct CHO or	
SHD	1200-02
HIGH ALTHODE	Effective
Banka	Times
Route	(UTC)
SYR J63 EHMAN YXU J547 FNT PAITN-STAR (RNAV only) SYR JOSSY MAULL KODIE CTW TIGRR	1100-03
(RNAV)-STAR	
(all others) SYR J29 KELIE SLT016 SLT SLT249 KODIE CTW081 CTW CINCE-STAR	
(Turbojets) J6 LRP DELRO-STAR or	1100-03
(Turboprops) DNY LHY V106 SEG SEG-STAR	1100-03
(RNAV only) ETX SEG PSB MAULL KODIE CTW TIGRR (RNAV)-STAR	
or (all others) ETX SEG PSB PSB281 MAULL SLT249	
KODIE CTW081 CTW CINCE-STAR	
	Route (60–170 incl, props less than 210 kts) SASHA V292 SAGES V408 LHY LVZ V29 SLATT V6 FJC V149 MAZIE or (60–170 incl, props 210 kts plus) SASHA V292 SAGES V408 LHY LVZ V29 SLATT V6 FJC V149 MAZIE or (60–170 incl, turbojets) SASHA V292 SAGES V408 LHY LVZ V147 MAZIE (110–170, water) BOS LUCOS SEY067 SEY HTO V139 MANTA V276 ARD or (90–170, non-turbojet) V292 SAGES V408 LHY LVS V613 FJC V149 MAZIE ARD or (90–170, jets) V292 SAGES V408 LHY LVS V29 ETX V30 V149 MAZIE ARD (110–170, non-turbojet) HFD V58 THUMB HTO V139 BRIGS ACY V184 OOD or (110–170, non-turbojet) HFD V58 THUMB HTO V139 BRIGS CEDAR LAKE—STAR ALTITUDE DIRECTIONAL ROUTES Route c overflying Washington Metro Area: HAR V377 W3B GVE LRP V93 PXT MXE V474 V377 HGR Metro Area from over ENO landing Charlottesville, VA o ENO V213 GVE098 GVE thence direct CHO or SHD HIGH ALTITUDE Route SYR J63 EHMAN YXU J547 FNT PAITN—STAR (RNAV only) SYR J0SSY MAULL KODIE CTW TIGRR (RNAV)—STAR or (all others) SYR J29 KELIE SLT016 SLT SLT249 KODIE CTWO81 CTW CINCE—STAR (RNAV)—STAR or (Turbojets) J6 LRP DELRO—STAR (RNAV)—STAR or (Turboprops) DNY LHY V106 SEG SEG—STAR (RNAV only) ETX SEG PSB MAULL KODIE CTW TIGRR (RNAV)—STAR (RNAV only) ETX SEG PSB MAULL KODIE CTW TIGRR (RNAV)—STAR

rı	REFERRED IFR ROUTES	39
Terminals	Pauto	Effective Times
Detroit Metro-Wayne Co (DTW)	Route ETX J80 J518 DJB GEMNI-STAR	(UTC)
ATLANTIC CITY (ACY) Detroit Metro–Wayne Co (DTW)	V229 LEEAH V268 ENO V29 DQO PENSY J110 LEJOY J518 DJB GEMNI-STAR	
BALTIMORE (BWI) —See Washington/Baltim	ore Metro	
BANGOR (BGR)	(DNAVL.) OVD 1000V MAULL KODIE OTW TIODD	
Cincinnati (CVG)	(RNAV only) SYR JOSSY MAULL KODIE CTW TIGRR (RNAV)-STAR or	
	(all others) SYR J29 KELIE SLT016 SLT SLT249 KODIE CTW081 CTW CINCE-STAR	
BINGHAMTON (BGM)	(DNAV only) CED FOM DCD MALLLI KODIE CTW	
Cincinnati (CVG)	(RNAV only) CFB FQM PSB MAULL KODIE CTW TIGRR (RNAV)-STAR or	
	(all others) CFB FQM PSB PSB281 MAULL SLT249 KODIE CTW081 CTW CINCE-STAR	
Atlanta (ATL)	GLYDE BAF J77 PTW J48 ODF WHINZ-STAR	1100-0300
	(RNAV only) GLYDE BAF J77 PTW J48 ODF FLCON	
Dell'error (DMI)	(RNAV)-STAR	1100-0300
Baltimore (BWI) Boca Raton (BCT)	NELIE CMK J75 MXE V378 BAL(Turbojets-GPS or DME/DME-IRU equipped)	1100-0300
2000 Nation (2017)	LUCOS SEY067 SEY HTO J174 ORF ISO J121 CHS J79 OMN CAYSL (RNAV)-STAR	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) LUCOS SEY067 SEY HTO J174 SWL CEBEE WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR	
	or (Turbojets) LUCOS SEY067 SEY HTO J174 ORF ISO J121 CHS J79 OMN TUXXI-STAR or	
	(Water-Turbojets) LUCOS SEY067 SEY HTO J174 SWL CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL	
Charlotte (CLT)	BOS NELIE CMK J75 GVE LYH SUDSY	1100 0200
Chicago O'Hare (ORD)	(RNAV)-STAR MHT CAM SYR J63 EHMAN YXU J547 FNT PAITN-STAR	1100-0300 1100-0300
Cincinnati (CVG)	(RNAV only) GLYDE CTR HNK J49 PSB MAULL KODIE CTW TIGRR (RNAV)-STAR	1100-0300
	(all others) GLYDE CTR HNK J49 PSB PSB281 MAULL SLT249 KODIE CTW081 CTW	
Cleveland (CLE)	CINCE-STAR MHT CAM J547 SYR J29 KELIE BDF CXF	1100-0300
Dallas/Ft. Worth (DFW)	GLYDE BAF J77 SAX J6 LIT BYP	1100-0300
Dayton (DAY)	GLYDE BAF J77 SAX J80 AIR APE DANEI-STAR MHT CAM SYR J547 BUF J94 ONL J114 SNY	1100-0300
Detroit Metro-Wayne Co. (DTW)	LANDR-STAR MHT CAM J547 BUF BUF267 YQ0094 YQ0 SPICA-STAR	1100-0300 1100-0300
Detroit Satellites: Coleman A Young (DET), Windsor (CYQG), Pontiac (PTK), Willow Run		
(YIP), Ann Arbor (ARB)	MHT CAM J547 BUF YQOor	1100-0300
	SYR J547 YXU GOHMA-STAR	1100-0300
	SYR J547 YXU SWWAN-STAR	1100-0300

Effective Times Terminals Route (UTC) Fort Lauderdale (FLL)..... (Turbojets-GPS or DME/DME-IRU equipped) LUCOS SEY067 SEY HTO J174 ORF ISO J121 CHS J79 OMN FISEL (RNAV)-STAR (Water-Turbojets-GPS or DME/DME-IRU equipped) LUCOS SEY067 SEY HTO J174 SWL CEBEE WETRO ILM AR21 CRANS FISEL (RNAV)-STAR..... (Turbojets) LUCOS SEY067 SEY HTO J174 ORF ISO J121 CHS J79 OMN GISSH-STAR..... (Water-Turboiets) LUCOS SEY067 SEY HTO J174 SWL CEBEE WETRO ILM AR21 CRANS HILL FATHR GISSH-STAR (Water-Turboprops-GPS or DME/DME-IRU equipped) LUCOS SEY067 SEY HTO J174 ILM AR21 CRANS FISEL (RNAV)-STAR..... (Turboprops) LUCOS SEY067 SEY HTQ J174 ORF J121 CHS J79 OMN MLB BLUFI-STAR..... (Water-Turboprops) LUCOS SEY067 SEY HTO J174 ILM AR21 CRANS HILL FATHR GISSH-STAR Fort Myers (RSW) (WATER-Turbojets-GPS or DME/DME-IRU equipped) LUCOS SEY067 SEY HTO J174 SWL CEBEE WETRO DIW ILM AR15 HIBAC SHFTY 1100-0300 (RNAV)-STAR..... Greensboro (GSO) NELIE CMK J75 GVE LYH V222 HENBY 0000-2359 Houston George Bush Intctl (IAH) (Turbojets-GPS or DME/DME-IRU equipped) GLYDE BAF J77 PTW J48 MOL J22 VUZ AEX TXMEX (RNAV)-STAR 1100-0300 (non-advanced NAV only) GLYDE BAF J77 PTW J48 MOL J22 VUZ AEX DAS-STAR 1100-0300 Houston Hobby (HOU) (GPS or DME/DME-IRU equipped) GLYDE BAF J77 PTW J48 MOL J22 VUZ AEX ROKIT-STAR..... 1100-0300 (non-advanced NAV only) GLYDE BAF J77 PTW J48 MOL J22 VUZ AEX DAS-STAR 1100-0300 Indianapolis (IND) GLYDE BAF J77 SAX J80 EMPTY DON CLANG-STAR 1100-0300 Islip (ISP) LUCOS SEY067 SEY V268 HTO V46 CCC 1100-0300 LUCOS SEY067 SEY PARCH CCC ROBER Kennedy (JFK) 1100-0300 Los Angeles (LAX) MHT CAM SYR J547 BUF J16 BAE DBQ J94 ONL J114 DVV J60 HEC DOWNE-STAR 1100-0300 or MHT CAM SYR J547 BUF J94 ECK J38 GRB ODI FSD J114 DVV J60 HEC RIIVR-STAR 1100-0300 Memphis (MEM) GLYDE BAF J77 SAX J6 BWG WLDER-STAR 1100-0300 Miami (MIA) (Turbojets-GPS or DME/DME-IRU equipped) LUCOS SEY067 SEY HTO J174 ORF ISO J121 CHS J79 OMN HILEY (RNAV)-STAR..... (Water-Turbojets-GPS or DME/DME-IRU equipped) LUCOS SEY067 SEY HTO J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAV)-STAR..... (Turbojets) LUCOS SEY067 SEY HTO J174 ORF ISO J121 CHS J79 OMN ANNEY-STAR or

Effective

		Times
erminals	Route	(UTC)
	(Water-Turbojets) LUCOS SEY067 SEY HTO J174	
	SWL CEBEE WETRO DIW AR22 JORAY OSOGY	
	ENVOY YOSSI MILSY BOYUR HILEY KAINS	
	Or (Turbaniana) LUCOS SEVOGA SEV HTO 1474 ORE	
	(Turboprops) LUCOS SEY067 SEY HTO J174 ORF	
Milwaukee (MKE)	J121 CHS J79 OMN ANNEY-STAR MHT CAM SYR J547 BUF J94 ECK MKG V2	
WIIWaakee (WIKE)	SUDDS	1100-0300
Minneapolis/St Paul (MSP)	MHT CAM SYR J547 BUF YWT J63 TVC J522 GRB	1100-0300
willing apolicy of Faul (wor /	EAU-STAR	1100-0300
Nashville (BNA)	GLYDE BAF J77 SAX J6 YOCKY GUITR-STAR	1100-0300
Newark (EWR)	(More than 250 kts) GLYDE V292 V213 SAX	1100-0300
	or	
	(250 kts or less) GLYDE V292 V489 COATE	1100-0300
New Orleans (MSY)	GLYDE BAF J77 PTW J48 MOL J22 MEI J31	
Orlando Exec (ORL)	LUCOS SEY067 SEY HTO J174 ORF J121 CHS	
	J79 OMN CORLL-STAR	1100-0300
	or (GPS or DME/DME-IRU equipped) LUCOS	
	SEY067 SEY HTO J174 SWL CEBEE WETRO ILM	
	AR15 HIBAC CWRLD (RNAV)-STAR	1100-0400
Orlando Intl (MCO)	(Water-Turbojets) LUCOS SEY067 SEY HTO J174	1100-0400
	SWL CEBEE WETRO ILM AR15 HIBAC APOLO	
	ORL	1100-0300
	or	
	LUCOS SEY067 SEY HTO J174 ORF J121 CHS	
	J79 OMN BITHO-STAR	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) LUCOS	
	SEY067 SEY HTO J174 SWL CEBEE WETRO ILM	
	AR15 HIBAC CWRLD (RNAV)-STAR	1100-0400
	Or	
	(GPS or DME/DME-IRU equipped) LUCOS	
	SEY067 SEY HTO J174 ORF J121 CHS J79	1100 0100
Philadelphia (PHL)	OMN CWRLD (RNAV)-STAR LUCOS SEY067 SEY HTO J121 BRIGS VCN-STAR	1100-0400 1100-0300
Pittsburgh (PIT)	GLYDE CTR HNK HNK271 J190 SLT GRACE-STAR	1100-0300
Raleigh-Durham (RDU)	LUCOS SEY067 SEY HTO J174 SWL ARGAL-STAR	1000-0300
Salt Lake City (SLC)	MHT CAM SYR J547 BUF J16 BAE DBQ J94 OCS	
	LHO-STAR	
San Francisco (SFO)	MHT CAM J547 SYR J547 BUF J94 ECK J38 GRB	
	J106 GEP J70 ABR J32 FMG ILA PYE PYE-	
	STAR	1100-0300
St Louis (STL)	GLYDE BAF J77 SAX J80 AIR J110 VHP VLA-STAR	
Tampa (TPA)	NELIE CMK J75 TAY LZARD-STAR	1100 0200
Washington Dulles (IAD)	GLYDE BAF J77 SAX J6 LRP V143 MULRR AML LUCOS SEY067 SEY HTO J174 ATR085 ATR V308	1100-0300
Washington Natl (DCA)	BILIT	1100-0300
	or	1100-0300
	(GPS or DME/DME-IRU equipped) LUCOS	
	SEY067 SEY HTO J174 ATR085 ATR V308	
	LAFLN BILIT (RNAV)-STAR	1100-0300
West Palm Beach (PBI)	(Turbojets-GPS or DME/DME-IRU equipped)	
	LUCOS SEY067 SEY HTO J174 ORF ISO J121	
	CHS J79 OMN FRWAY (RNAV)-STAR	1100-0300
	or	
	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) LUCOS SEY067 SEY HTO J174 SWL	
	CEBEE WETRO DIW AR19 AYBID FRWAY	
	(RNAV)-STAR	1100-0300
	Or (Tarterista) 111000 051/007 051/1170 1474 055	
	(Turbojets) LUCOS SEY067 SEY HTO J174 ORF	4400 0000
	ISO J121 CHS J79 OMN TUXXI-STAR	1100-0300
	or	
	or	

Terminals	Route	Effective Times (UTC)
Terminas	(Water-Turbojets) LUCOS SEY067 SEY HTO J174 SWL CEBEE WETRO DIW AR19 AYBID MIMMI	
	NEUBE SWOMP SANZZ CASKI	1100-0300
BRIDGEPORT (BDR)	BEADS EMJAY J174 ZIZZI ATRO85 ATR V308	
Baltimore (BWI)	BILIT	
Binghamton (BGM)	(Turbojets) NEION J223 CORDS CFB	
Boca Raton (BCT)	(Turbojets-GPS or DME/DME IRU equipped)	
	BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN CAYSL (RNAV)-STAR	
	(Turbojets) BEADS CCC148 J174 ORF ISO J121	
	CHS J79 OMN TUXXI-STAR	
	(Water-Turbojets-GPS or DME/DME IRU	
	equipped) BEADS CCC148 J174 SWL CEBEE	
	WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR or	
	(Water-Turbojets) BEADS CCC148 J174 SWL	
	CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE	
Puffolo (PUE)	SWOMP SANZZ CAYSL	
Buffalo (BUF)	(Turbojets) NEION J223 CORDS ULW ULW306 BENEEor	
	(Turboprops) GAYEL J95 CFB V270 ULW ULW306 BENEE	
Chicago O'Hare (ORD)	COATE J36 FNT PAITN-STAR	1100-0300
Dallas/Fort Worth (DFW) Detroit Metro Wayne Co (DTW)	BEADS V139 SARDI RBV J230 J6 LIT BYP GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR	
bettett mette wayne ee (b1w)	YQO SPICA-STAR	1100-0300
Detroit Satellites:		
Coleman A Young (DET), Pontiac (PTK),	CAVEL IOF OFF OFFICER TRANS HIMMORE KOORD	
Willow Run (YIP), Ann Arbor (ARB)	GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR YQO	
Windsor (CYQG)	GAYEL J95 CFB CFB286 TRAAD J132 ULW306 KOOPR YQO	
Fort Lauderdale (FLL)	(Turbojets) BEADS CCC148 J174 ORF ISO J121	
	CHS J79 OMN GISSH-STAR	
	or (Turboprops) BEADS CCC148 J174 ORF J121	
	CHS J79 OMN MLB BLUFI-STAR	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped)	
	BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN FISEL (RNAV)-STAR	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) BEADS CCC148 J174 SWL CEBEE	
	WETRO ILM AR21 CRANS FISEL (RNAV)-STAR or	
	(Water-Turbojets) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR21 CRANS HILL FATHR	
Ithone (ITH)	GISSH-STAR(Turbojets) NEION J223 CORDS CFB V423	
Ithaca (ITH) Miami (MIA, TMB, HST)	(Turbojets-GPS or DME/DME-IRU equipped)	
	BEADS CCC148 J174 ORF ISO J121 CHS J79	
	OMN HILEY (RNAV)-STAR	
	or (Turboprops) BEADS CCC148 J174 ORF J121 CHS J79 OMN ANNEY-STAR	
	or	
	(Turbojets) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN ANNEY-STAR	
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NE. 23 SEP 2010 to 18 NOV 2010

Route

(Water-Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAV)-STAR... or (Water-Turbojets) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR22 JORAY OSOGY ENVOY

Terminals

(UTC)

	CEBEE WETRO DIW AR22 JORAY OSOGY ENVOY	
	YOSSI MILSY BOYUR HILEY KAINS	
Montreal (CYUL)	SOARS V419 JUDDS CAM J222 PLB V91 NAPEE	
Orlando Executive (ORL)	BEADS CCC148 J174 ORF J121 CHS J79 OMN	4400 0000
	CORLL-STAR	1100-0300
	Or (CDS or DME (DME IDII oquipped) BEADS	
	(GPS or DME/DME-IRU equipped) BEADS	
	CCC148 J174 SWL CEBEE WETRO ILM AR15 HIBAC CWRLD (RNAV)-STAR	1100-0400
Orlando Intl (MCO)	BEADS CCC148 J174 ORF J121 CHS J79 OMN	1100-0400
oriando inti (Moo)	BITHO-STAR	1100-0300
	or (Water-Turbojets) BEADS CCC148 J174 SWL	
	CEBEE WETRO ILM AR15 HIBAC APOLO ORL	1100-0300
	or	1100-0300
	(GPS or DME/DME-IRU equipped) BEADS	
	CCC148 J174 ORF J121 CHS J79 OMN CWRLD	
	(RNAV)-STAR	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) BEADS	
	CCC148 J174 SWL CEBEE WETRO ILM AR15	
	HIBAC CWRLD (RNAV)-STAR	1100-0400
Pittsburgh (PIT)	(Turbojets) COATE J36 J190 SLT GRACE-STAR or	
	(Turboprops) GAYEL V374 V58 LHY J36 J217 ETG	
	V226 CIP GRACE-STAR	
Raleigh/Durham (RDU)	BEADS CCC148 J174 SWL ARGAL-STAR	
Richmond (RIC)	BEADS CCC148 J174 SWL V139 CCV HPW	1100-0200
Rochester (ROC)	(Turbojets) NEION J223 CORDS ULW V31 GIBBE .	
Syracuse (SYR)	(Turbojets) NEION J223 CORDS CFB V29	
Tampa (TPA)	BEADS V139 SARDI RBV J230 J75 TAY LZARD-STAR	
	or	
	(GPS or DME/DME-IRU equipped) BEADS V139	
	SARDI RBV J230 J75 TAY DADES (RNAV)-STAR.	
Washington Dulles (IAD)	BEADS V139 SARDI RBV RBV289 V457 LRP V143	
, ,	MULRR AML	
Washington Natl (DCA)	BEADS CCC148 J174 ATR085 ATR V308 BILIT	
	(GPS or DME/DME-IRU equipped) BEADS	
	CCC148 J174 ATRO85 ATR V308 LAFLN BILIT	
	(RNAV)-STAR	
West Palm Beach (PBI)	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) BEADS CCC148 J174 SWL CEBEE	
	WETRO DIW AR19 AYBID FRWAY (RNAV)-STAR	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped)	
	BEADS CCC148 J174 ORF ISO J121 CHS J79	
	OMN FRWAY (RNAV)-STAR	
	0r (Turboioto) PEADS CCC148 1174 OPE ISO 1121	
	(Turbojets) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN TUXXI-STAR	
	or	
	(Water-Turbojets) BEADS CCC148 J174 SWL	
	CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE	
	SWOMP SANZZ CASKI	
BUFFALO (BUF)		
Cincinnati (CVG)	(RNAV only) BUF JHW MAULL KODIE CTW TIGRR	
	(RNAV)-STAR	
	or	
NE 00.0	NED 0040 L. 40 NOV 0040	
NE. 23 S	SEP 2010 to 18 NOV 2010	

Effective

		Effective Times
Terminals	Route (all others) BUF JHW JHW194 MAULL SLT249 KODIE CTW081 CTW CINCE-STAR	(UTC)
Detroit Satellites:	RODIE CIWOSI CIW CINCE-STAR	
Coleman A Young (DET), Pontiac (PTK), Windsor (CYQG), Ann Arbor (ARB),		
Willow Run (YIP)	YXU PICES-STAR	
	or YXU GOHMA-STAR	1100-030
	or	4400 000
Kennedy (JFK)	YXU SWWAN-STARV33 J70 LVZ LENDY-STAR	1100-030
La Guardia (LGA)	(Above 250 kts) V14 GEE RKA HAARP-STAR or	1110-030
	(250 kts or less) V14 BEEPS J522 EXTOL RKA292 RKA NOBBI-STAR	
Newark (EWR)	(Above 250 kts) V14 BEEPS J522 HNK	
,	SHAFF-STAR or	
	(250 kts or less) V14 BEEPS J522 HNK V167	
Philadelphia (PHI)	WEARD V489 COATEV33 BFD PSB HAR V210 BUNTS	
Philadelphia (PHL)BURLINGTON (BTV)	VOO DI DEPORTAN VZIO DONIO	
Chicago O'Hare (ORD)	ART YSO J546 ECK TVC PAITN-STAR(RNAV only) SYR J29 JOSSY MAULL KODIE CTW	1100-030
	TIGRR-STAR	
	or (all others) SYR J29 KELIE SLT SLT249 KODIE CTW081 CTW CINCE-STAR	
La Guardia (LGA)	ALB PWL IGN V157	1100-030
Newark (EWR)	ALB V213 SAX	1100-030
Philadelphia (PHL) Pittsburgh (PIT)	(Turbojets only) ALB DNY SLATT-STARALB J49 HNK HNK271 J190 SLT GRACE-STAR	1100-030
Washington Dulles (IAD)	(Turbojets) ALB J6 LRP DELRO–STAR	1100-030
	(Turboprops) ALB LHY V106 SEG SEG-STAR	1100-030
CHARLESTON (CRW)	TVT KEATNI STAD	
Cleveland (CLE) Houston George Bush Intcntl (IAH)	TVT KEATN-STAR (Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR	
	or (non-advanced NAV only) LIT J180 SWB	
Houston Hobby (HOU)	DAS-STAR(GPS or DME/DME-IRU equipped) LIT J180 SWB	
	ROKIT (RNAV)–STARor	
	(non-advanced NAV only) LIT J180 SWB DAS-STAR	
CHARLOTTESVILLE (CHO) Cincinnati (CVG)	HNN090/50 GAVNN	
	or (RNAV only-at or below FL220) HNN GAVNN	
	(RNAV)-STARor	
	(all others–at or above FL240) HNN090/50 HNN JAVIT–STAR	
	Or	
HARRISBURG (MDT)	(all others-at or below FL220) HNN JAVIT-STAR	
Chicago (ORD)	HAR V33 MCMAN J64 MAINE ZANLA WATSN	
	(RNAV)-STAR	
	MRB J6 COLNS BRUSH-STAR	
Cincinnati (CVG)	or (RNAV only) MRB J6 COLNS GAVNN (RNAV)-STAR	

Effective

PICES-STAR	(UTC) 1100-0300 1100-0300
or GOHMA-STAR or SWWAN-STAR OS EMJAY J174 ZIZZI ATROB5 ATR V308 .IT ojets) NEION J223 CORDS CFB	
or GOHMA-STAR or SWWAN-STAR OS EMJAY J174 ZIZZI ATROB5 ATR V308 .IT ojets) NEION J223 CORDS CFB	
GOHMA-STARSTAR STAR STAR STAR STAR STAR STAR STAR	
or SWWAN-STAR OS EMJAY J174 ZIZZI ATROB5 ATR V308 LIT Ojets) NEION J223 CORDS CFB	
OS EMJAY J174 ZIZZI ATROB5 ATR V308 LITojets) NEION J223 CORDS CFB	1100-0300
.ITojets) NEION J223 CORDS CFB	
ojets) NEION J223 CORDS CFB	
ojets-GPS or DME/DME-IRU equipped)	
ADS CCC148 J174 ORF ISO J121 CHS J79 IN CAYSL (RNAV)-STAR	
or	
ojets) BEADS CCC148 J174 ORF ISO J121 S J79 OMN TUXXI-STAR	
or er-Turbojets) BEADS CCC148 J174 SWL	
BEE WETRO DIW AR19 AYBID MIMMI NEUBE /OMP SANZZ CAYSL	
or	
er-Turbojets-GPS or DME/DME-IRU uipped) BEADS CCC148 J174 SWL CEBEE	
TRO DIW AR19 AYBID CAYSL (RNAV)-STAR	
IT ORW ORW-STAR ojets) NEION J223 CORDS ULW ULW306 NEE	
or	
oprops) GAYEL J95 CFB V270 ULW ULW306 NEE	
E J36 FNT PAITN-STAR	1100-0300
V only) BEADS V139 SARDI RBV J230 AME J6 COLNS GAVNN (RNAV)-STAR	
thers) BEADS V139 SARDI RBV J230 SAAME	
EL J95 CFB CFB286 TRAAD ULW306 KOOPR	
O OF TOA STANK	
L J95 CFB CFB286 TRAAD ULW306 KOOPR	
S J79 OMN GISSH-STAR	
oprops) BEADS CCC148 J174 ORF J121 S J79 OMN MLB BLUFI-STAR	
ojets-GPS or DME/DME-IRU equipped)	
IN FISEL (RNAV)-STAR	
er-Turboprops) BEADS CCC148 J174 ILM 21 CRANS HIILL FATHR GISSH-STAR	
er-Turboprops-GPS or DME/DME-IRU uipped) BEADS CCC148 J174 ILM AR21	
C = 0 O H C O H C O E U C E U	COLNS BRUSH-STAR

ort Myers (RSW)	Route (Water-Turbojets) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR21 CRANS HILL FATHR GISSH-STAR	Times (UTC)
haca (ITH)fiami Metro Area:	CEBEE WETRO ILM AR21 CRANS HILL FATHR GISSH-STAR	
haca (ITH)fiami Metro Area:	or (Water-Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR21 CRANS FISEL (RNAV)-STAR (WATER-Turbojets) BEADS CCC J174 SWL CEBEE WETRO ILM AR15 HIBAC SHFTY (RNAV)-STAR (Turbojets) NEION J223 CORDS CFB V423 (Turbojets) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN ANNEY-STAR or (Water-Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAV)-STAR or (Water-Turbojets) BEADS CCC148 J174 SWL	
haca (ITH)fiami Metro Area:	equipped) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR21 CRANS FISEL (RNAV)—STAR (WATER-Turbojets) BEADS CCC J174 SWL CEBEE WETRO ILM AR15 HIBAC SHFTY (RNAV)—STAR (Turbojets) NEION J223 CORDS CFB V423 (Turbojets) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN ANNEY—STAR or (Water-Turbojets—GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAV)—STAR or (Water-Turbojets) BEADS CCC148 J174 SWL	
haca (ITH)fiami Metro Area:	WETRO ILM AR21 CRANS FISEL (RNAV)-STAR (WATER-Turbojets) BEADS CCC J174 SWL CEBEE WETRO ILM AR15 HIBAC SHFTY (RNAV)-STAR (Turbojets) NEION J223 CORDS CFB V423 (Turbojets) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN ANNEY-STAR	
haca (ITH)fiami Metro Area:	WETRO ILM AR15 HIBAC SHFTY (RNAV)-STAR (Turbojets) NEION J223 CORDS CFB V423 (Turbojets) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN ANNEY-STAR or (Water-Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAV)-STAR or (Water-Turbojets) BEADS CCC148 J174 SWL	
Miami Metro Area:	(Turbojets) NEION J223 CORDS CFB V423 (Turbojets) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN ANNEY-STAR or (Water-Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAV)-STAR or (Water-Turbojets) BEADS CCC148 J174 SWL	
	CHS J79 OMN ANNEY-STAR or (Water-Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAV)-STAR or (Water-Turbojets) BEADS CCC148 J174 SWL	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAV)-STAR or (Water-Turbojets) BEADS CCC148 J174 SWL	
	equipped) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAV)-STAR or (Water-Turbojets) BEADS CCC148 J174 SWL	
	(Water-Turbojets) BEADS CCC148 J174 SWL	
	CEBEE WETRO DIW AR22 JORAY OSOGY ENVOY YOSSI MILSY BOYUR HILEY KAINS	
	or (Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 ORF ISO CHS J79 OMN	
	HILEY (RNAV)-STARor	
	(Turboprops) BEADS CCC148 J174 ORF J121	
Montreal (CYUL)	CHS J79 OMN ANNEY-STAR GREKI V419 JUDDS CAM J222 PLB PLB-STAR	
Orlando Executive (ORL)	BEADS CCC148 J174 ORF J121 CHS J79 OMN CORLL-STAR	1100-03
	(GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR15	*** 00 04
Orlando Intl (MCO)	HIBAC CWRLD (RNAV)-STAR(Water-Turbojets) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR15 HIBAC APOLO ORL	1100-04
	or BEADS CCC148 J174 ORF J121 CHS J79 OMN	
	BITHO-STARor	1100-03
	(GPS or DME/DME-IRU equipped) BEADS CCC148 J174 ORF J121 CHS J79 OMN CWRLD	
	(RNAV)-STAR	1100-04
	(GPS or DME/DME-IRU equipped) BEADS	
	CCC148 J174 SWL CEBEE WETRO ILM AR15 HIBAC CWRLD (RNAV)-STAR	1100-04
Pittsburgh (PIT)	(Turbojets) COATE J36 J190 SLT GRACE-STAR or	1100-0-
	(Turboprops) GAYEL V374 V58 LHY J36 J217 ETG V226 CIP GRACE-STAR	
Raleigh/Durham (RDU)	BEADS CCC148 J174 SWL ARGAL-STAR	
Richmond (RIC)	BEADS CCC148 J174 SWL V139 CCV HPW (Turbojets) NEION J223 CORDS ULW V31 GIBBE	
Syracuse (SYR)	(Turbojets) NEION J223 CORDS CFB V29	
Washington Dulles (IAD)	BEADS V139 SARDI RBV RBV289 V457 LRP V143	
Washington Natl (DCA)	MULRR AML BEADS CCC148 J174 ATR085 ATR V308 BILIT or	
	(GPS or DME/DME-IRU equipped) BEADS	
	CCC148 J174 ATR085 ATR V308 LAFLN BILIT (RNAV)-STAR	

Route

(Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN FRWAY (RNAV)-STAR (Water-Turbojets) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE

Terminals

MANCHESTER (MHT)

Detroit Satellites:

West Palm Beach (PBI)

Times (UTC) (Turbojets) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN TUXXI-STAR.....

SWOMP SANZZ CASKI..... (Water-Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR19 AYBID FRWAY (RNAV)-STAR.. (Advanced RNAV only) BAF J77 SAX J77 PTW J48 ODF ٥r (Advanced RNAV only) COTEE (RNAV)-DP BAF J77 SAX J77 PTW J48 ODF FLCON (RNAV)-STAR

(All others) PSM PSM216/37 COTEE BAF J77 SAX

Atlanta (ATL) (Advanced RNAV only) COTEE (RNAV)-DP BDL

Baltimore (BWI)

Chicago O'Hare (ORD) Cincinnati (CVG)..... Coleman A Young (DET), Pontiac (PTK), Ann Arbor (ARB), Windsor (CYQG), Willow Run (YIP).....

Orlando (MCO).....

Tampa (TPA)..... Wash Dulles (IAD)

Wash Natl (DCA)

Cincinnati (CVG).....

MONTREAL (CYUL)

(All others) PSM PSM216/37 COTEE BAF J77 SAX J6 LRP DELRO-STAR

or

or

or

NE. 23 SEP 2010 to 18 NOV 2010

or

or

(All others) PSM PSM216/37 COTEE BDL CMK J75 CAE J75 DUNKN AMG LEESE-STAR (Advanced RNAV only) COTEE (RNAV)-DP BDL CMK J75 TAY DADES (RNAV)-STAR

(Advanced RNAV only) COTEE (RNAV)-DP BDL

(All others) PSM PSM216/37 COTEE BDL CMK J75 MXE V378 BAL

(RNAV only) YOW J546 YSO MAULL KODIE CTW

TIGRR (RNAV)-STAR

CMK J75 MXE V378 BAL

(Advanced RNAV only) COTEE (RNAV)-DP BAF J77 SAX J6 LRP DELRO-STAR

(All others) PSM PSM216/37 COTEE BDL CMK J75 TAY DADES (RNAV)-STAR

SYR J547 YXU SWWAN-STAR (Advanced RNAV only) COTEE (RNAV)-DP BDL CMK J75 CAE J75 DUNKN AMG LEESE-STAR....

(all others) CAM J547 SYR J29 KELIE SLT016 SLT SLT249 KODIE CTW081 CTW CINCE-STAR SYR J547 YXU PICES-STAR SYR J547 YXU GOHMA-STAR 1100-0300

J77 PTW J48 ODF WHINZ-STAR CMK J75 MXE V378 BAL (All others) PSM PSM216/37 COTEE BDL CMK J75 MXE V378 BAL CAM SYR J63 EHMAN YXU J547 FNT PAITN-STAR (RNAV only) CAM J547 SYR JOSSY MAULL KODIE CTW TIGRR-STAR.....

1100-0300 1100-0300 1100-0300 1100-0300

1100-0300

1100-0300

1100-0300

1100-0300

1100-0300

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1100-0300

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1100-0300

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Effective

1100-0300

Effective Times Torminale Route (UTC) (all others) YOW J546 YSO YYZ JHW JHW194 MAULL SLT249 KODIE CTW081 CTW CINCE-STAR..... Detroit Metro-Wayne Co (DTW) YOW J546 V282 J524 BUGSY J570 ALB IGN IGN-STAR Kennedy (JFK)..... V282 J524 BUGSY J570 ALB PWL IGN V157 La Guardia (LGA)..... MORRISTOWN (MMU) Marco Isle (MKY) (Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC SHFTY (RNAV)-STAR..... Naples (APF) (Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC SHFTY (RNAV)-STAR..... **NEWBURGH (SWF)** Cincinnati (CVG)..... (RNAV only) WEARD LHY J36 DGRAF J49 PSB MAULL KODIE CTW TIGRR (RNAV)-STAR..... (RNAV only) WEARD LHY J36 DGRAF J49 PSB MMJ CTW TIGRR (RNAV)-STAR..... (all others) WEARD LHY J36 DGRAF J49 PSB PSB281 MAULL SLT249 KODIE CTW081 CTW CINCE-STAR..... NEW HAVEN (HVN) Baltimore (BWI) BEADS EMJAY J174 ZIZZI ATRO85 ATR V308 BILIT Binghamton (BGM) (Turboiets) NEION J223 CORDS CFB Boca Raton (BCT)..... (Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN CAYSL (RNAV)-STAR (Turbojets) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN TUXXI-STAR..... or (Water-Turboiets) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL or (Water-Turboiets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR .. Buffalo (BUF)..... (Turbojets) NEION J223 CORDS ULW ULW306 BENEE (Turboprops) GAYEL J95 CFB V270 ULW ULW306 BENEE Chicago O'Hare (ORD) COATE J36 FNT PAITN-STAR 1100-0300 Dallas/Ft Worth (DFW)..... BEADS V139 SARDI RBV J230 J6 LIT BYP Detroit Metro Wayne Co (DTW)..... GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR YQO SPICA-STAR 1100-0300 Detroit Satellites: Coleman A Young (DET), Windsor (CYQG), Pontiac (PTK), Willow Run GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR (YIP), Ann Arbor (ARB) 1100-0300 YQ0 Fort Lauderdale (FLL)..... (Water-Turboprops) BEADS CCC148 J174 ILM AR21 CRANS HILL FATHR GISSH-STAR (Turbojets) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN GISSH-STAR..... (Turboprops) BEADS CCC148 J174 ORF J121 CHS J79 OMN MLB BLUFI-STAR..... or

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
	(Water-Turbojets) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR21 CRANS HIILL FATHR GISSH-STAR	(0.0)
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR21 CRANS FISEL (RNAV)-STAR or	
	(Water-Turboprops-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 ILM AR21 CRANS FISEL (RNAV)-STAR	
	(Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN FISEL (RNAV)-STAR	
haca (ITH) liami (MIA)	(Turbojets) NEION J223 CORDS CFB V423 (Turbojets) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN ANNEY-STAR	
	(Turboprops) BEADS CCC148 J174 ORF J121 CHS J79 OMN ANNEY-STARor	
	(Water-Turbojets) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR22 JORAY OSOGY ENVOY YOSSI MILSY BOYUR HILEY KAINS or	
	(Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN HILEY (RNAV)-STAR	
Nontreal (CYUL)	(Water-Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAY)-STAR SOARS V419 JUDDS CAM J222 PLB PLB-STAR	
orlando Executive (ORL)	(Turbojets) BEADS CCC148 J174 ORF J121 CHS J79 OMN CORLL-STARor	1100-0300
	(Water–Turbojets) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR15 HIBAC APOLO ORL or	
	(GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR15 HIBAC CWRLD (RNAV)-STAR	1100-0400
rlando Intl (MCO)	(Turbojets) BEADS CCC148 J174 ORF J121 CHS J79 OMN BITHO-STAR	1100-0400
	(GPS or DME/DME-IRU equipped) BEADS CCC148 J174 ORF J121 CHS J79 OMN CWRLD (RNAV)-STAR	1100-0400
	or (GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR15	1100 0400
ittsburgh (PIT)	HIBAC CWRLD (RNAV)-STAR	1100-0400
taleigh/Durham (RDU)tichmond (RIC)tochester (ROC)	V226 CIP GRACE-STAR	
Syracuse (SYR)ampa (TPA)	(Turbojets) NEION J223 CORDS CFB V29 BEADS V139 SARDI RBV J230 J75 TAY LZARD-STAR	
	or (GPS or DME/DME-IRU equipped) BEADS V139 SARDI RBV J230 J75 TAY DADES (RNAV)-STAR.	

	P. C.	Effective Times
rminals ashington Dulles (IAD)	Route BEADS V139 SARDI RBV RBV289 V457 LRP V143	(UTC)
, , , , , , , , , , , , , , , , , , ,	MULRR AML	
ashington Natl (DCA)	BEADS CCC148 J174 ATR085 ATR V308 BILIT or	
	(GPS or DME/DME-IRU equipped) BEADS CCC148 J174 ATR085 ATR V308 LAFLN BILIT	
est Palm Beach (PBI)	(RNAV)-STAR (Water-Turbojets) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE	
	SWOMP SANZZ CASKIor	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR19 AYBID FRWAY (RNAV)-STAR or	
	(Turbojets-GPS or DME/DME-IRU equipped)	
	BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN FRWAY (RNAV)-STAR	
	(Turbojets) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN TUXXI-STAR	
W YORK METRO AREA		
om KENNEDY (JFK) only Atlanta (ATL)	RBV J230 J48 ODF WHINZ-STAR	
	(RNAV only) RBV J230 J48 ODF FLCON RNAV-STAR	
	or RBV J230 J48 ODF WHINZ-STAR	
Augusta (AGS)	RBV J230 J75 GVE J37 SPA	1100-030
Baltimore (BWI)	RBV RBV274 MXE056 MXE V378 BAL	
Binghamton (BGM)	(Turbojets) NEION J223 CORDS CFB	
Boca Raton (BCT)	(Turbojets-GPS or DME/DME-IRU equipped) WAVEY EMJAY J174 ORF ISO J121 CHS J79	
	OMN CAYSL (RNAV)-STAR	
	(Turbojets) WAVEY EMJAY J174 ORF ISO J121	
	CHS J79 OMN TUXXI-STAR	
	Or (Water-Turbojets) WAVEY EMIAY 1174 SWI	
	(Water–Turbojets) WAVEY EMJAY J174 SWL CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE	
	SWOMP SANZZ CAYSL	
	or (Water-Turbojets-GPS or DME/DME-IRU	
	equipped) WAVEY EMJAY J174 SWL CEBEE	
Buffalo (BUF)	WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR (Turbojets) NEION J223 CORDS ULW ULW306 BENEE	
	or (Turboprops) GAYEL J95 CFB V270 ULW ULW306	
Burlington (BTV)	BENEE	
Burlington (BTV) Charleston (CHS)	GREKI V419 JUDDS CAM WAVEY EMJAY J174 SWL J121	
Charlotte (CLT)	RBV J230 J75 GVE LYH MAJIC-STAR	
Charlottesville (CHO)	RBV J230 J75 GVE	
Chicago Midway (MDW)	RBV J64 FWA GSH-STAR	0000 221
Chicago O'Hare (ORD) Cincinnati (CVG)	COATE J36 FNT PAITN-STAR (RNAV only) RBV J230 SAAME J6 COLNS GAVNN (RNAV)-STAR	0000–23
	or (all others) RBV J230 SAAME J6 COLNS	
	BRUSH-STAR	
Cleveland (CLE)	RBV J64 PSB115 PSB PSB292 YNG CXR	
Columbia (CAE)	RBV J230 J75	

Towningle	Douto	Effective Times
Terminals Dallas/Ft. Worth (DFW)	RBV J230 J6 LIT BYP	(UTC)
Dayton (DAY)	RBV J230 AIR APE DANEI-STAR	
Denver (DEN)	RBV J230 AIR APE J178 FWA JOT J60 IOW J10 LBF SAYGE-STAR	
Detroit Metro-Wayne Co (DTW)	GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR YQO SPICA-STAR	
Detroit Satellites:		
(DET), Windsor	GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR YQO	
(CYQG), Pontiac (PTK), Willow Run (YIP), Ann Arbor (ARB)	GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR	
Fayetteville (FAY)	YQG RBV J230 J75 GVE SBV RDU	
Ft Lauderdale (FLL, FXE, OPF)	(Water-Turbojets) WAVEY EMJAY J174 SWL CEBEE WETRO ILM AR21 CRANS HIILL FATHR GISSH-STAR	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) WAVEY EMJAY J174 SWL CEBEE WETRO ILM AR21 CRANS FISEL (RNAV)-STAR or	
	(Turbojets) WAVEY EMJAY J174 ORF ISO J121 CHS J79 OMN GISSH-STAR	
	or (Turbojets-GPS or DME/DME-IRU equipped)	
	WAVEY EMJAY J174 ORF ISO J121 CHS J79	
	OMN FISEL (RNAV)-STAR	
	(Turboprops) WAVEY EMJAY J174 ORF J121 CHS J79 OMN MLB BLUFI-STARor	
	(Water-Turboprops) WAVEY EMJAY J174 ILM AR21 CRANS HIILL FATHR GISSH-STAR	
	(Water-Turboprops-GPS OR DME/DME-IRU equipped) WAVEY EMJAY J174 ILM AR21 CRANS FISEL (RNAV)-STAR	
Fort Myers (FMY, RSW)	(GPS or DME/DME-IRU equipped) RBV J230 J75 GSO J75 DUNKN SHFTY (RNAV)-STAR	
	(WATER-Turbojets) WAVEY EMJAY J174 SWL CEBEE WETRO ILM AR15 HIBAC SHFTY	
Greensboro (GSO)Houston George Bush Intenti (IAH)	(RNAV)-STARRBV J230 J75 GVE LYH V222 HENBY(non-advanced NAV only) RBV J230 J48 MOL J22	0000-2359
Trouble and the second and the secon	VUZ AEX DAS-STAR	
	(Turbojets-GPS or DME/DME-IRU equipped) RBV J230 J48 MOL J22 VUZ AEX TXMEX (RNAV)-STAR	
Houston Hobby (HOU)	(non-advanced NAV only) RBV J230 J48 MOL J22 VUZ AEX DAS-STARor	
	(GPS or DME/DME-IRU equipped) RBV J230 J48 MOL J22 VUZ AEX ROKIT-STAR	
Indianapolis (IND)	RBV J230 AIR J80 EMPTY DQN CLANG-STAR (Turbojets) NEION J223 CORDS CFB V423	
Kansas City (MKC)	WAVEY EMJAY J174 CHS BRUNSWICK-STAR RBV J230 AIR J80 SPI BRAYMER-STAR	
Knoxville (TYS)	RBV J230 J48 MOL J22RBV J230 AIR J80 MCI J24 SLN J102 ALS J44	
	RSK	
Louisville (SDF)	RBV J230 J6 HVQ J6 YOCKY DARBY-STAR	
Memphis (MEM)	GSO J75 DUNKN SHFTY (RNAV)-STAR RBV J230 J6 BWG WLDER-STAR	

		Effectiv
erminals	Route	Times (UTC)
Miami (MIA, TMB, HST)	(Turbojets-GPS or DME/DME-IRU equipped)	(0.0)
	WAVEY EMJAY J174 ORF ISO J121 CHS J79	
	OMN HILEY (RNAV)-STAR	
	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) WAVEY EMJAY J174 SWL CEBEE	
	WETRO DIW AR22 JORAY HILEY (RNAV)-STAR	
	or (Water-Turbojets) WAVEY EMJAY J174 SWL	
	CEBEE WETRO DIW AR22 JORAY OSOGY ENVOY	
	YOSSI MILSY BOYUR HILEY KAINS	
	or	
	(Turbojets) WAVEY EMJAY J174 ORF ISO J121	
	CHS J79 OMN ANNEY-STAR	
	or (Turboprops) WAVEY EMJAY J174 ORF J121 CHS	
	J79 ANNEY-STAR	
Milwaukee (MKE)	COATE J36 FNT MKG V2 SUDDS	
Minneapolis (MSP)	GAYEL J95 BUF YWT J63 TVC J522 GRB EAU-STAR	
Montreal (CYUL)	GREKI V419 JUDDS CAM J222 PLB PLB-STAR	
Naples (APF)	(Turbojets-GPS or DME/DME-IRU equipped) RBV	
	J230 J75 GSO J75 DUNKN SHFTY	
Nashville (BNA)	(RNAV)-STARRBV J230 J6 YOCKY GUITR- STAR	
Nashville (BNA) New Orleans (MSY)	RBV J230 J6 YOCKY GUITR- STAR	
Norfolk (ORF)	WAVEY EMJAY J174 SWL V139 CCV	
Orlando Executive (ORL)	(Turbojets) WAVEY EMJAY J174 ORF J121 CHS	: 30. 0
	J79 OMN CORLL-STARor	1100-0
	(GPS or DME/DME-IRU equipped) WAVEY EMJAY	
	J174 SWL CEBEE WETRO ILM AR15 HIBAC	
	CWRLD (RNAV)-STAR	1100-0
Orlando Intl (MCO)	(Turbojets) WAVEY EMJAY J174 ORF J121 CHS	4400 0
	J79 OMN BITHO-STARor	1100-0
	(Water-Turbojets) WAVEY EMJAY J174 SWL	
	CEBEE WETRO ILM AR15 HIBAC APOLO ORL	
	Or (GPS or DME/DME_IRIL equipped) WAVEV EMIAV	
	(GPS or DME/DME-IRU equipped) WAVEY EMJAY J174 ORF J121 CHS J79 OMN CWRLD	
	(RNAV)-STAR	1100-0
	or	
	(GPS or DME/DME-IRU equipped) WAVEY EMJAY	
	J174 SWL CEBEE WETRO ILM AR15 HIBAC CWRLD (RNAV)-STAR	1100-0
Phoenix (PHX)	RBV J230 AIR J110 STL J19 ZUN FOSSL-STAR	
Pittsburgh (PIT)	(Turbojets) COATE J36 J190 SLT GRACE-STAR	
	or (Turboprops) GAYEL V374 V58 LHY J36 J217 ETG	
	V226 CIP GRACE-STAR	
Raleigh/Durham (RDU)	WAVEY EMJAY J174 SWL ARGAL-STAR	
Richmond (RIC)	WAVEY EMJAY J174 SWL V139 CCV HPWRBV J230 J48 MOL	
Rochester (ROC)	(Turbojets) NEION J223 CORDS ULW V31 GIBBE .	
Salt Lake City (SLC)	GAYEL J95 BUF J16 BAE DBQ J94 OCS OGD	
San Francisco (SF0)	GAYEL J95 BUF J16 ECK J38 GRB J106 GEP J70 ABR J32 FMG GOLDEN GATE-STAR	
Sarasota/Bradenton (SRQ)	RBV J230 J75 TAY J85 GNV LAL	
Savannah (SAV)	WAVEY EMJAY J174 ORF J121 CHS	
St. Louis (STL)	RBV J230 AIR J110 VHP VLA-STARRBV J230 J75 TAY LZARD-STAR	
Syracuse (SYR)	(Turbojets) NEION J223 CORDS CFB V29	
Tampa (TPA)	RBV J230 J75 TAY LZARD-STAR	
	or	

Route

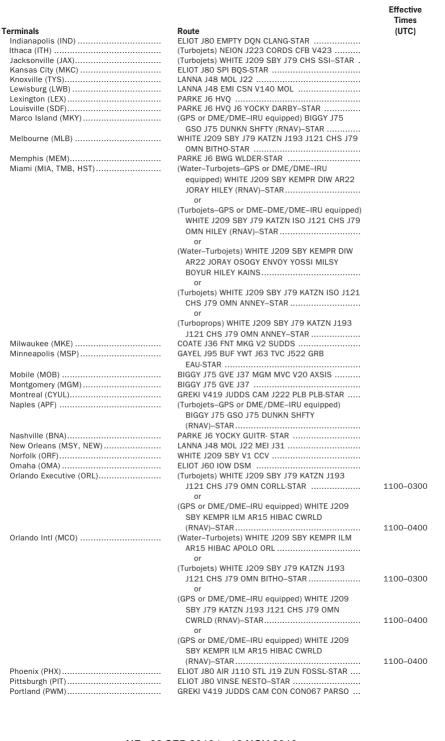
Terminals

Effective Times (UTC)

4

Terminals	Route	(UTC)
	(GPS or DME/DME-IRU equipped) RBV J230 J75	
T (0)0(T)	TAY DADES (RNAV)-STAR	
Toronto (CYYZ) Washington Dulles (IAD)	GAYEL J95 BUF V36 RBV RBV289 V457 LRP V143 MULRR AML	
Washington Natl (DCA)	(Turbojets only FL 180–FL 220) WAVEY EMJAY	
Washington Nati (Bo/l)	J174 ZIZZI ATRO85 ATR V308 BILIT DCA	
	(Turbojets only/FL180-FL220/GPS or	
	DME/DME-IRU equipped) WAVEY EMJAY J174	
	ZIZZI ATRO85 ATR V308 LAFLN BILIT	
West Palm Beach (PBI)	(RNAV)-STAR(Water Turboiets GPS or DME/DME IDII	
West Failit Beach (FBI)	(Water-Turbojets-GPS or DME/DME-IRU equipped) WAVEY EMJAY J174 SWL CEBEE	
	WETRO DIW AR19 AYBID FRWAY (RNAV)-STAR	
	(Turbojets) WAVEY EMJAY J174 ORF ISO J121	
	CHS J79 OMN TUXXI-STAR	
	(Turbojets-GPS or DME/DME-IRU equipped)	
	WAVEY EMJAY J174 ORF ISO J121 CHS J79	
	OMN FRWAY (RNAV)-STAR	
	or (Water–Turbojets) WAVEY EMJAY J174 SWL	
	CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE	
	SWOMP SANZZ CASKI	
From LA GUARDIA (LGA) only	ELIOT J60 PSB PSB292060 YNG V72 ACO	
Akron/Canton (CAK)	ELIOT J80 VINSE NESTO-STAR	
Atlanta (ATL)	LANNA J48 ODF WHINZ-STAR	
Augusta (AGS)	(RNAV only) LANNA J48 ODF FLCON (RNAV)-STAR BIGGY J75 GVE J37 SPA	
Baltimore (BWI)	BIGGY J75 MXE V378 BAL	
Binghamton (BGM)	(Turbojets) NEION J223 CORDS CFB	
Birmingham (BHM)	LANNA J48 MOL J22 VXV VUZ	
Boca Raton (BCT)	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN TUXXI-STAR	
	or (Turbojets-GPS or DME/DME-IRU equipped)	
	WHITE J209 SBY J79 KATZN ISO J121 CHS J79	
	OMN CAYSL (RNAV)-STAR	
	or (Water–Turbojets) WAVEY EMJAY J174 SWL	
	CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE	
	SWOMP SANZZ CAYSL	
	or	
	(Water–Turbojets–GPS or DME/DME–IRU	
	equipped) WAVEY EMJAY J174 SWL CEBEE WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR	
Boston (BOS)	MERIT ORW ORW-STAR	
Buffalo (BUF)	(Turbojets) NEION J223 CORDS ULW ULW306 BENEE	
	Or (Turb parents) COATE 126 HI W/4 44 HI W/ HI W/206	
	(Turboprops) COATE J36 ULW141 ULW ULW306 BENEE	
Burlington (BTV)	GREKI V419 JUDDS CAM	
Charleston (CHS)	(Turbojets) WHITE J209 SBY J79 KATZN TYI CHS	
Charleston (CRW)	PARKE J6 HVQ	
Charlotte (CLT) Charlottesville (CHO)	BIGGY J75 GVE LYH MAJIC-STAR BIGGY J75 GVE	
Chattanooga (CHA)	LANNA J48 MOL J22 VXV	
Chicago Midway (MDW)	ELIOT J60 GSH GSH-STAR	
Chicago O'Hare (ORD)	COATE J36 FNT PAITN-STAR	0000-2359
Cincinnati (CVG)	(RNAV only) PARKE J6 COLNS GAVNN (RNAV)-STAR	
	or	
NE 00.6	SED 2010 to 19 NOV 2010	
INE. 23 3	SEP 2010 to 18 NOV 2010	

		Effective Times
rminals	Route	(UTC)
0	(all others) PARKE J6 COLNS BRUSH-STAR	
Cleveland (CLE) Columbus (CMH)	ELIOT J60 PSB PSB292 YNG CXRELIOT J80 AIR AIR260 BREMN	
Dallas/Fort Worth (DFW)	PARKE J6 LIT BYP	
Dayton (DAY)	ELIOT J80 AIR APE DANEI-STAR	
Daytona Beach (DAB)	WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN	
Dekalb/Peachtree (PDK)	LANNA J48 ODF AWSON-STAR	
Denver (DEN) Detroit Metro Wayne Co (DTW)	ELIOT J60 IOW J10 LBF SAYGE-STAR GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR YQO SPICA-STAR	
Detroit Satellites: Ann Arbor (ARB), Coleman A Young (DET), Pontiac (PTK), Willow Run (YIP),		
Windsor (CYQG)	GAYEL J95 BUF J547 YXU PICES-STAR	
	GAYEL J95 BUF J547 YXU GOHMA-STAR	1100-030
	GAYEL J95 BUF J547 YXU SWWAN-STAR	1100-030
Windsor (CYQG)	GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR YQG	
Fayetteville (FAY)	BIGGY J75 GVE SBV RDU	
Fort Lauderdale (FLL, FXE, OPF)	(Water-Turbojets) WHITE J209 SBY KEMPR ILM AR21 CRANS HIILL FATHR GISSH-STAR	
	or (Water-Turbojets GPS or DME/DME-IRU	
	equipped) WHITE J209 SBY KEMPR ILM AR21	
	CRANS FISEL (RNAV)-STARor	
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN GISSH-STAR	
	or (Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS	
	OMN FISEL (RNAV)-STARor	
	(Turboprops) WHITE J209 SBY J79 KATZN J193	
	J121 CHS J79 VRB BLUFI-STAR	
	(Water-Turboprops) WHITE J209 SBY KEMPR ILM AR21 CRANS HIILL FATHR GISSH-STAR	
	Or (Water-Turboprops GPS or DME/DME-IRU	
	equipped) WHITE J209 SBY KEMPR ILM AR21 CRANS FISEL (RNAV)-STAR	
Fort Myers (FMY, RSW)	(GPS or DME/DME-IRU equipped) BIGGY J75 GSO J75 DUNKN SHFTY (RNAV)-STAR	
	or (WATER-Turbojets-GPS or DME/DME-IRU	
Fort Wayne (FWA)	equipped) WAVEY EMJAY J174 SWL CEBEE WETRO ILM AR15 HIBAC SHFTY (RNAV)-STAR ELIOT J80 SUZIE J64	
Greensboro (GSO)	BIGGY J75 GVE LYH V222 HENBY	0000-235
Greer (GSP)	BIGGY J75 GVE J37 SPA	
Hot Springs (HSP) Houston George Bush Intcntl (IAH)	LANNA J48 EMI CSN V140 MOL(non-advanced NAV only) LANNA J48 MOL J22	
doorgo baon mona (min)	VUZ AEX DAS-STARor	
	(Turbojets-GPS or DME/DME-IRU equipped) LANNA J48 MOL J22 VUZ AEX TXMEX	
Houston Hobby (HOU)	(RNAV)-STAR (GPS or DME/DME-IRU equipped) LANNA J48 MOL J22 VUZ AEX ROKIT (RNAV)-STAR	
	or (non-advanced NAV only) LANNA J48 MOL J22 VUZ AEX DAS-STAR	



Route

WHITE J209 CYN J37 J191 PXT PXT238 HPW025

Raleigh/Durham (RDU)

Terminals

Effective Times (UTC)

1100-0300

Raleigh/Durham (RDU)	WHITE J209 CYN J37 J191 PXT PXT238 HPW025
	HPW ARGAL-STAR
Richmond (RIC)	WHITE J209 SBY V1 CCV HPW
Roanoke (ROA)	LANNA J48 MOL
Rochester (ROC)	(Turbojets) NEION J223 CORDS ULW V31 GIBBE . or
	(Turboprops) COATE J36 LHY CFB V252 GIBBE
Salt Lake City (SLC)	GAYEL J95 BUF J16 ECK J38 GRB ODI FSD J82
out take ony (obo)	RAP J158 DDY J107 OCS OGD
Sarasota/Bradenton (SRQ)	BIGGY J75 TAY J85 GNV LAL
Savannah (SAV)	(Turbojets) WHITE J209 SBY J79 CHS
St. Louis (STL)	ELIOT J80 AIR J110 VHP VLA-STAR
St. Petersburg (PIE)	BIGGY J75 TAY LZARD-STAR
Syracuse (SYR)	(Turbojets) NEION J223 CORDS CFB V29
	(Turboprops) COATE J36 LHY CFB
Tampa (TPA)	BIGGY J75 TAY LZARD-STAR
	ELIOT J60 DJB VWV
Toledo (TOL)	(Turbojets) GAYEL J95 BUF V36
Toronto (CYYZ)	or
	(Turboprops) COATE J36 ULW141 ULW V36
Tri-City (TRI)	LANNA J48 MOL J22 PSK V16 HMV
Washington Dulles (IAD)	PARKE J6 LRP V143 MULRR AML
Washington Natl (DCA)	BIGGY J75 MXE V378 BAL
mashington rati (DOA)	or
	(GPS or DME/DME-IRU equipped) BIGGY J75
	MXE CLIPR (RNAV)-STAR
West Palm Beach (PBI)	(Water–Turbojets–GPS or DME/DME–IRU
	equipped) WHITE J209 SBY KEMPR DIW AR19
	AYBID FRWAY (RNAV)-STAR
	or
	(Water-Turbojets) WHITE J209 SBY KEMPR DIW
	AR19 AYBID MIMMI NEUBE SWOMP SANZZ
	CASKIor
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121
	CHS J79 OMN TUXXI-STAR
	or (Turbojets-GPS or DME/DME-IRU equipped)
	WHITE J209 SBY J79 KATZN ISO J121 CHS J79
	OMN FRWAY (RNAV)-STAR
Winston-Salem (INT)	BIGGY J75 GSO
Youngstown (YNG)	ELIOT J60 PSB PSB292060
From NEWARK (EWR) only	
Akron (CAK)	ELIOT J60 PSB PSB292 YNG V72 ACO
Akron (AKR)	ELIOT J60 PSB PSB292060 YNG V72 ACO
Allegheny County (AGC)	ELIOT J80 VINSE NESTO-STAR
Atlanta (ATL)	LANNA J48 ODF WHINZ-STAR
	or
	(RNAV only) LANNA J48 ODF FALCON
	(RNAV)-STAR
Augusta (AGS)	BIGGY J75 GVE J37 SPA
Baltimore (BWI)	BIGGY J75 MXE V378 BAL
Binghamton (BGM)	NEION J223 CORDS CFB
Birmingham (BHM)	LANNA J48 MOL J22 VXV VUZ
Boca Raton (BCT)	(Turbojets–GPS or DME/DME–IRU equipped)
2004 1.4.011 (201)	WHITE J209 SBY J79 KATZN ISO J121 CHS J79
	OMN CAYSL (RNAV)-STAR
	or (Turbojets) WHITE J209 SBY J79 KATZN ISO J121
	CHS J79 OMN TUXXI-STAR
	or
	(Mater Turboiete GDS or DME /DME IDII
	(Water-Turbojets GPS or DME/DME-IRU
	(Water-Turbojets GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR DIW AR19 AYBID CAYSL (RNAV)-STAR

Effective Times

Terminals	Route	Times (UTC)
	(Water-Turbojets) WHITE J209 SBY KEMPR DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL	
Buffalo (BUF)	(Turbojets) NEION J223 CORDS ULW ULW306 BENEE	
	(Turboprops) COATE J36 ULW141 ULW ULW306 BENEE	
Charleston (CHS)	(Turbojets) WHITE J209 SBY J79 KATZN TYI CHS . PARKE J6 HVQ BIGGY J75 GVE LYH MAJIC-STAR	1100- 0300
Charlottesville (CHO)	BIGGY J75 GVE LANNA J48 MOL J22 VXV	1100-0300
Chicago Midway (MDW)	ELIOT J60 GSH GSH-STAR COATE J36 FNT PAITN-STAR PARKE J6 COLNS HNN JAVIT-STAR	0000-2359
	or COLNS JAVIT-STAR	
	or (RNAV only) PARKE J6 COLNS GAVNN (RNAV)-STAR	
Cleveland (CLE)	or (all others) PARKE J6 COLNS BRUSH-STAR ELIOT J60 PSB PSB292 YNG CXR	
Columbus (CMH) Dallas/Fort Worth (DFW) Dayton (DAY)	ELIOT J80 AIR AIR260 BREMN PARKE J6 LIT BYP ELIOT J80 AIR APE DANEI-STAR	
Daytona Beach (DAB)	WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN	
Dekalb (Peachtree) (PDK) Denver (DEN) Detroit Metro Wayne Co (DTW)	LANNA J48 ODF AWSON-STAR ELIOT J60 IOW J10 LBF SAYGE-STAR GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR	
Detroit Satellites: Coleman A Young (DET), Windsor (CYQG), Pontiac (PTK), Willow Run	YQO SPICA-STAR	
(YIP)	GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR YQOGAYEL J95 CFB CFB286 TRAAD ULW306 KOOPER	
Fayetteville (FAY)Fort Lauderdale (FLL)	YQGBIGGY J75 GVE SBV RDU(Turbojets-GPS or DME/DME-IRU equipped)	
Tott Lauderdale (TLL)	WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN FISEL (RNAV)–STAR	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR21 CRANS FISEL (RNAV)-STAR	
	(Water-Turbojets) WHITE J209 SBY KEMPR ILM AR21 CRANS HIILL FATHR GISSH-STAR	
	(Water-Turboprops) WHITE J209 SBY KEMPR ILM AR21 CRANS HIILL FATHR GISSH-STAR	
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN GISSH-STAR	
	(Turboprops) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN MLB BLUFI-STAR	
	or Wheter-Turboprops-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR21 CRANS FISEL (RNAV)-STAR	

	P. II.	Effective
erminals	Route	(UTC)
Fort Myers (FMY, RSW)	(GPS or DME/DME-IRU equipped) BIGGY J75 GSO J75 DUNKN SHFTY (RNAV)-STAR	
Fort Wayne (FWA)	ELIOT J80 SUZIE J64	
Greensboro (GSO)	BIGGY J75 GVE LYH V222 HENBY	0000-23
Greer (GSP)	BIGGY J75 GVE J37 SPA	
Hot Springs (HSP)	LANNA J48 EMI CSN V140 MOL	
Houston George Bush Intentl (IAH)	(non-advanced NAV only) LANNA J48 MOL J22	
· , ,	MEI AEX DAS-STAR	
	(Turbojets-GPS or DME/DME-IRU equipped)	
	LANNA J48 MOL J22 MEI AEX TXMEX	
Harratan Habbur (HOH)	(RNAV)-STAR	
Houston Hobby (HOU)	(GPS or DME/DME-IRU equipped) LANNA J48	
	MOL J22 MEI AEX ROKIT (RNAV)-STAR or	
	(non-advanced NAV only) LANNA J48 MOL J22	
	MEI AEX DAS-STAR	
Indianapolis (IND)	ELIOT J80 EMPTY DQN CLANG-STAR	
Ithaca (ITH)	(Turbojets) NEION J223 CORDS CFB V423	
Kansas City (MKC)	ELIOT J80 SPI BQS-STAR	
Knoxville (TYS)	LANNA J48 MOL J22	
Lewisburg (LWB)	LANNA J48 EMI CSN V140 MOL	
Lexington (LEX)	PARKE J6 HVQ	
Los Angeles (LAX)	ELIOT J80 MCI J24 SLN J102 ALS J44 RSK J64	
	PGS RIIVR-STAR	
Louisville (LOU, SDF)	PARKE J6 HVQ J6 YOCKY DARBY-STAR	
Marco Island (MKY)	(GPS or DME/DME-IRU equipped) BIGGY J75	
, ,	GSO J75 DUNKN SHFTY (RNAV)–STAR	
Melbourne (MLB)	WHITE J209 SBY J79 KATZN J193 J121 CHS J79	
, ,	OMN BITHO-STAR	
Memphis (MEM)	PARKE LRP J6 BWG WLDER-STAR	
Miami (MIA)	(Turbojets-GPS or DME/DME-IRU equipped)	
, ,	WHITE J209 SBY J79 KATZN ISO J121 CHS J79	
	OMN HILEY (RNAV)-STAR	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) WHITE J209 SBY KEMPR DIW AR22	
	JORAY HILEY (RNAV)-STAR	
	or (Turbojets) WHITE J209 SBY J79 KATZN ISO J121	
	CHS J79 OMN ANNEY-STAR or	
	(Water-Turbojets) WHITE J209 SBY KEMPR DIW	
	AR22 JORAY OSOGY ENVOY YOSSI MILSY	
	BOYUR HILEY KAINS	
	or	
	(Turboprops) WHITE J209 SBY J79 KATZN J193	
	J121 CHS J79 OMN ANNEY-STAR	
Milwaukee (MKE)	COATE J36 FNT MKG V2 SUDDS	
Minneapolis (MSP)	GAYEL J95 BUF YWT J63 TVC J522 GRB EAU-	
	STAR	
Mobile (MOB)	BIGGY J75 GVE J37 MGM MVC V20 AXSIS	
Montgomery (MGM)	BIGGY J75 GVE J37	
Montreal (CYUL)	GREKI V419 JUDDS CAM J222 PLB PLB-STAR	
Naples (APF)	(Turbojets-GPS or DME/DME-IRU equipped)	
	BIGGY J75 GSO J75 DUNKN SHFTY (RNAV)-STAR	
Nashville (BNA)	PARKE J6 YOCKY GUITR- STAR	
New Orleans (MSY)	LANNA J48 MOL J22 MEI J31	
Norfolk (ORF)	WHITE J209 SBY V1 CCV	
Orlando Executive (ORL)	(Turbojets) WHITE J209 SBY J79 KATZN J193	
	J121 CHS J79 OMN CORLL-STAR	1100-03
	or	
	(GPS or DME/DME-IRU equipped) WHITE J209	
	SBY KEMPR ILM AR15 HIBAC CWRLD	
	(RNAV)-STAR	1100-04
	(IIIIIII) SIAII	1100-05

Terminals	Route	Effective Times (UTC)
Orlando Intl (MCO)	(Turbojets) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN BITHO-STAR or	1100-0300
	(Water-Turbojets) WHITE J209 SBY KEMPR ILM AR15 HIBAC APOLO ORLor	1100-0300
	(GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN CWRLD (RNAV)-STAR	1100-0400
	or (GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC CWRLD	1100 0 100
Phoenix (PHX)	(RNAV)-STAR ELIOT J80 AIR J110 STL J19 ZUN FOSSL-STAR	1100-0400
Pittsburgh (PIT) Portland (PWM)	GREKI V419 JUDDS CAM CON CON067 PARSO	
Raleigh-Durham (RDU)	WHITE J209 CYN J37 J191 PXT PXT238 HPW025 HPW ARGAL-STAR	
Richmond (RIC)	WHITE J209 SBY V1 CCV HPW	
Roanoke (ROA)	LANNA J48 MOL (Turbojets) NEION J223 CORDS ULW V31 GIBBE . or	
Salt Lake City (SLC)	(Turboprops) COATE J36 LHY CFB V252 GIBBE GAYEL J95 BUF J16 ECK J38 GRB ODI FSD J82	
San Francisco (SF0)	RAP J158 DDY J107 OCS OGD	
Sarasota/Bradenton (SRQ)	ABR J32 FMA ILA PYE GOLDEN GATE-STAR BIGGY J75 TAY J85 GNV LAL	
Savannah (SAV)	(Turbojets) WHITE J209 SBY J79 CHS	
St. Louis (STL)	ELIOT J80 AIR J110 VHP VLA-STAR	
St. Petersburg (PIE)	BIGGY J75 TAY LZARD-STAR	
Tampa (TPA)	COATE J36 LHY CFB BIGGY J75 TAY LZARD-STAR or	
	(GPS or DME/DME-IRU equipped) BIGGY J75 TAY DADES (RNAV)-STAR	
Toledo (TOL) Toronto (CYYZ)	ELIOT J60 DJB VWV(Turbojets) GAYEL J95 BUF V36	
Tri-City (TRI)	or (Turboprops) COATE J36 ULW141 ULW V36 LANNA J48 MOL J22 PSK V16 HMV	
Washington Dulles (IAD)	PARKE J6 LRP V143 MULRR AML BIGGY J75 MXE V378 BAL	
	or (GPS or DME/DME-IRU equipped) BIGGY J75	
West Dalm Reach (DDI)	MXE CLIPR (RNAV)-STAR(Water-Turbojets-GPS or DME/DME-IRU	
West Palm Beach (PBI)	equipped) WHITE J209 SBY KEMPR DIW AR19 AYBID FRWAY (RNAV)-STAR	
	or (Turbojets-GSP or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN FRWAY (RNAV)-STAR	
	or (Turbojets) WHITE J209 SBY J79 KATZN ISO J121	
	CHS J79 OMN TUXXI-STARor	
Wincton Solom (INT)	(Water-Turbojets) WHITE J209 SBY KEMPR DIW AR19 AYBID NEUBE SWOMP SANZZ CASKI	
Winston Salem (INT)Youngstown (YNG)	BIGGY J75 GSO ELIOT J60 PSB PSB292	
From NEWARK SATELLITES only		
Akron (CAK)	ELIOT J60 PSB PSB292 YNG V72 ACO	
NE. 23 S	SEP 2010 to 18 NOV 2010	

Effective Times

rminals	Route	Times (UTC)
Akron (AKR)	ELIOT J60 PSB PSB292060 YNG V72 ACO	(010)
Allegheny County (AGC)	ELIOT J80 VINSE NESTO-STAR	
Augusta (AGS)	LANNA J48 ETX215 J75 GVE J37 SPA	1100-0300
Baltimore (BWI)	BIGGY J75 MXE V378 BAL	
Binghamton (BGM)	(Turbojets) NEION J223 CORDS CFB	
Birmingham (BHM)	LANNA J48 MOL J22 VXV VUZ	
Boca Raton (BCT)	(Turbojets-GPS or DME/DME-IRU equipped)	
	WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN CAYSL (RNAV)-STAR	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) WHITE J209 SBY KEMPR DIW AR19	
	AYBID CAYSL (RNAV)-STAR	
	or (Turbojets) WHITE J209 SBY J79 KATZN ISO J121	
	CHS J79 OMN TUXXI–STAR	
	(Water-Turbojets) WHITE J209 SBY KEMPR DIW	
	AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL	
Buffalo (BUF)	(Turbojets) NEION J223 CORDS ULW ULW306	
.==.	BENEE or	
	(Turboprops) COATE J36 ULW141 ULW ULW306 BENEE	
Charleston (CHS)	(Turbojets) WHITE J209 SBY J79 KATZN TYI CHS .	
harleston (CRW)	PARKE J6 HVQ	
harlotte (CLT)	LANNA J48 ETX215 J75 GVE LYH MAJIC-STAR	1100-0300
harlottesville (CHO)	LANNA J48 ETX215 J75 GVE	
hattanooga (CHA)	LANNA J48 MOL J22 VXVCOATE J36 FNT PAITN-STAR	0000-2359
hicago O'Hare (ORD)incinnati (CVG)	(RNAV only) PARKE J6 COLNS GAVNN	0000-2359
moninati (ova)	(RNAV)-STAR	
	or	
	(all others) PARKE J6 COLNS BRUSH-STAR	
olumbus (CMH)	ELIOT J80 AIR AIR260 BREMN	
Vallas/Fort Worth (DFW)	PARKE J6 LIT BYP	
Daytona Beach (DAB)	WHITE J209 SBY J79 KATZN J193 J121 CHS J79	
ekalb (Peachtree) (PDK)	OMN LANNA J48 ODF AWSON-STAR	
Detroit Metro Wayne Co (DTW)	GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR	
Calor Micalo Wayne GO (DTW)	YQO SPICA-STAR	
Detroit Satellites:	•	
Coleman A Young (DET), Windsor		
(CYQG), Pontiac (PTK), Willow Run		
(YIP), Ann Arbor (ARB)	GAYEL J95 CFB CFB286 TRAAD ULW306	
	KOOPR YQO	
ayetteville (FAY)	LANNA J48 ETX215 J75 GVE SBV RDU	
ort Lauderdale (FLL)	(Turbojets–GPS or DME/DME–IRU equipped)	
	WHITE J209 SBY J79 KATZN ISO J121 CHS J79	
	OMN FISEL (RNAV)-STARor	
	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) WHITE J209 SBY KEMPR ILM AR21	
	CRANS FISEL (RNAV)-STAR	
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121	
	CHS J79 OMN GISSH-STAR	
	or (Water-Turbojets) WHITE J209 SBY KEMPR ILM	
	* '	
	AR21 CRANS HILL FATHR GISSH-STAR	
	or	

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		Effective Times
Terminals	Route	(UTC)
	(Turboprops) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN MLB BLUFI-STAR	
	(Water-Turboprops) WHITE J209 SBY KEMPR ILM	
Fort Myora (EMV, DSM)	AR21 CRANS HILL FATHR (GISSH)—STAR	
Fort Myers (FMY, RSW)	(GPS or DME/DME-IRU equipped) LANNA J48 J53 SPA J85 AMG SHFTY (RNAV)-STAR	
	or	
	(WATER-Turbojets-GPS or DME/DME-IRU	
	equipped) WHITE J209 SBY KEMPR WETRO ILM AR15 HIBAC SHFTY (RNAV)-STAR	
Fort Wayne (FWA)	ELIOT J80 SUZIE J64	
Greensboro (GSO)	LANNA J48 ETX215 J75 GVE LYH V222 HENBY	0000-2359
Greer (GSP)	LANNA J48 ETX215 J75 GVE J37 SPA LANNA J48 EMI CSN V140 MOL	
Houston George Bush Intenti (IAH)	(non-advanced NAV only) LANNA J48 MOL J22	
	VUZ AEX DAS-STAR	
	or (Turbojets-GPS or DME/DME-IRU equipped)	
	LANNA J48 MOL J22 VUZ AEX TXMEX	
	(RNAV)-STAR	
Houston Hobby (HOU)	(GPS or DME/DME-IRU equipped) LANNA J48	
	MOL J22 VUZ AEX ROKIT (RNAV)-STAR or	
	(non-advanced NAV only) LANNA J48 MOL J22	
In diamental (MID)	VUZ AEX DAS-STAR	
Indianapolis (IND)	ELIOT J80 EMPTY DQN CLANG-STAR(Turbojets) NEION J223 CORDS CFB V423	
Jacksonville (JAX)	(Turbojets) WHITE J209 SBY J79 KATZN TYI CHS	
	SSI-STAR	
Lewisburg (LWB) Lexington (LEX)	LANNA J48 EMI CSN V140 MOL PARKE J6 HVQ	
Los Angeles (LAX)	ELIOT J80 MCI J24 SLN J102 ALS J44 RSK J64	
	CIVET CIVET-STAR	
Louisville (LOU, SDF)	PARKE J6 HVQ J6 YOCKY DARBY-STAR(GPS or DME/DME-IRU equipped) LANNA J48 J53	
maree relation (initi)	SPA J85 AMG SHFTY (RNAV)-STAR	
Melbourne (MLB)	WHITE J209 SBY J79 KATZN J193 J121 CHS J79	
Miami (MIA)	OMN BITHO-STAR(Turbojets-GPS or DME/DME-IRU equipped)	
Widin (WiA)	WHITE J209 SBY J79 KATZN ISO J121 CHS J79	
	OMN HILEY (RNAV)-STAR	
	Or (Water Turboiete CBS or DME/DME IDII	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR DIW AR22	
	JORAY HILEY (RNAV)-STAR	
	or (Turbojets) WHITE J209 SBY J79 KATZN ISO J121	
	CHS J79 OMN ANNEY-STAR	
	or	
	(Water-Turbojets) WHITE J209 SBY KEMPR DIW AR22 JORAY OSOGY ENVOY YOSSI MILSY	
	BOYUR HILEY KAINS	
	or	
	(Turboprops) WHITE J209 SBY J79 KATZN J193	
Milwaukee (MKE)	J121 CHS J79 OMN ANNEY-STAR COATE J36 FNT MKG V2 SUDDS	
Minneapolis (MSP)	GAYEL J95 BUF YWT J63 TVC J522 GRB	
Mobile (MOB)	EAU-STARLANNA J48 J53 SPA J37 MGM MVC V20 AXSIS	
Montgomery (MGM)	LANNA J48 J53 SPA J37 MGM MVC V20 AXSIS LANNA J48 J53 SPA J37	
Montreal (CYUL)	GREKI V419 JUDDS CAM J222 PLB V91 NAPEE	
Naples (APF)	(Turbojets-GPS or DME/DME-IRU equipped)	
	LANNA J48 J53 SPA J85 AMG SHFTY (RNAV)-STAR	
Nashville (BNA)	PARKE J6 YOCKY GUITR-STAR	

Terminals

Route

Effective Times (UTC)

1100-0300 1100-0300

1100-0300

Terminals	Route
Norfolk (ORF)	WHITE J209 SBY V1 CCV
Orlando Executive (ORL)	(Turbojets) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN CORLL-STAR
Orlando Intl (MCO)	(Turbojets) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN BITHO-STAR
	or
	(Water–Turbojets) WHITE J209 SBY KEMPR ILM AR15 HIBAC APOLO ORL
Phoenix (PHX)	ELIOT J80 AIR J110 STL J19 ZUN FOSSL-STAR
Portland (PWM)	GREKI V419 JUDDS CAM CON CON067 PARSO
Richmond (RIC)	WHITE J209 SBY V1 CCV HPWLANNA J48 MOL
Rochester (ROC)	(Turbojets) NEION J223 CORDS ULW V31 GIBBE
	Or (Turbaniana) COATE ISS LUIV OFF VOES CIRRE
Salt Lake City (SLC)	(Turboprops) COATE J36 LHY CFB V252 GIBBE GAYEL J95 BUF J16 ECK J38 GRB ODI FSD J82
	RAP J158 DDY J107 OCS OGD
Savannah (SAV)	(Turbojets) WHITE J209 SBY J79 CHS
St. Petersburg (PIE)	LANNA J48 J53 SPA J85 TAY LZARD-STAR
Syracuse (SYR)	(Turbojets) NEION J223 CORDS CFB V29 or
Tampa (TPA)	(Turboprops) COATE J36 LHY CFBLANNA J48 J53 SPA J85 TAY LZARD-STAR
	or
	(GPS or DME/DME-IRU equipped) LANNA J48 J5:
	SPA J85 TAY DADES (RNAV)-STAR
Toledo (TOL)	ELIOT J60 DJB VWV
Toronto (CYYZ)	(Turbojets) GAYEL J95 BUF V36or
	(Turboprops) COATE J36 ULW141 ULW V36
Tri-City (TRI)	LANNA J48 MOL J22 PSK V16 HMV
Washington Dulles (IAD)	PARKE J6 LRP V143 MULRR AML
Washington Natl (DCA)	BIGGY J75 MXE V378 BAL
West Palm Beach (PBI)	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J7
	OMN FRWAY-STAR
	(Water-Turbojets-GPS or DME/DME-IRU
	equipped) WHITE J209 SBY KEMPR DIW AR19
	AYBID FRWAY (RNAV)—STAR
	or
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J12:
	CHS J79 OMN TUXXI-STARor
	(Water-Turbojets) WHITE J209 SBY KEMPR DIW
	AR19 AYBID MIMMI NEUBE SWOMP SANZZ
	CASKI
Winston Salem (INT)	BIGGY J75 GSO
Youngstown (YNG)	ELIOT J60 PSB PSB292060
ROM TETERBORO (TEB) only	
Boca Raton (BCT)	(Water-Turbojets-GPS or DME/DME-IRU
	equipped) WHITE J209 SBY KEMPR DIW AR19 AYBID CAYSL (RNAV)-STAR
	or
	(Water-Turbojets) WHITE J209 SBY KEMPR DIW
	AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL
	or (Turbojets-GPS or DME/DME-IRU equipped)
	WHITE J209 SBY J79 KATZN ISO J121 CHS J79
	OMN CAYSL (RNAV)-STAR
	or (Turbojets) WHITE J209 SBY J79 KATZN ISO J12:
	CHS J79 OMN TUXXI–STAR
Charleston (CHS)	(Turbojets) WHITE J209 SBY J79 KATZN TYI CHS
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rminals Cincinnati (CVG)	Route (RNAV only) PARKE J6 COLNS GAVNN	Effective Times (UTC)
	(RNAV)-STAR	
	(all others) PARKE J6 COLNS BRUSH-STAR	
Detroit Satellites: Coleman A Young (DET), Pontiac (PTK), Windsor (CYQG), Ann Arbor (ARB),		
Willow Run (YIP)	GAYEL J95 BUF J547 YXU PICES-STAR or	
	GAYEL J95 BUF J547 YXU GOHMA-STARor	1100-0300
	GAYEL J95 BUF J547 YXU SWWAN-STAR or	1100-0300
Ft. Lauderdale (FLL, OPF)	ELIOT J60 PSB LLEEO-STAR(Turbojets-GPS or DME/DME-IRU equipped)	
	WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN FISEL (RNAV)-STAR	
	or	
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN GISSH-STAR	
	or (Turboprops) WHITE J209 SBY J79 KATZN J193	
	J121 CHS J79 OMN MLB BLUFI-STAR or	
	(Water-Turboprops) WHITE J209 ORF J174 ILM AR21 CRANS HIILL FATHR GISSH-STAR	
	(Water-Turboprops-GPS or DME/DME-IRU	
	equipped) WHITE J209 ORF J174 ILM AR21 CRANS FISEL (RNAV)-STAR	
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR21	
	CRANS FISEL (RNAV)-STARor	
	(Water-Turbojets) WHITE J209 SBY KEMPR ILM	
Jacksonville (JAX)	AR21 CRANS FATHR GISSH-STAR (Turbojets) WHITE J209 SBY J79 CHS SSI-STAR (Turbojets-GPS or DME/DME-IRU equipped)	
	WHITE J209 SBY KEMPR ILM AR15 HIBAC SHFTY (RNAV)-STAR	
Miami (MIA, TMB, HST)	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) WHITE J209 SBY KEMPR DIW AR22 JORAY HILEY (RNAV)-STAR or	
	(Turbojets-GPS or DME/DME-IRU equipped)	
	WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN HILEY (RNAV)-STAR	 21 V
	or (Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN ANNEY-STAR	
	(Water-Turbojets) WHITE J209 SBY KEMPR DIW AR22 JORAY OSOGY ENVOY YOSSI MILSY BOYUR HILEY KAINS	
	or	
	(Turboprops) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN ANNEY-STAR	
Naples (APF)	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC	
Orlando Intl (MCO)	SHFTY (RNAV)-STAR(Turbojets) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN BITHO-STAR	1100-0300

Effective Times

'orminale	Pourto	Times
erminals	Route (GPS or DME/DME-IRU equipped) WHITE J209	(UTC)
	SBY J79 KATZN J193 J121 CHS J79 OMN	
	CWRLD (RNAV)-STAR	1100-040
	(GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC CWRLD	
	(RNAV)-STAR	1100-040
Orlando/Exec (ORL)	(Turbojets) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN CORLL-STAR	1100-030
	(Water-Turbojets) WHITE J209 SBY KEMPR ILM AR15 HIBAC APOLO ORL	
	or (GPS or DME/DME-IRU equipped) WHITE J209 SRY KEMPR II M 4R15 HIRAC CWRI D	
	SBY KEMPR ILM AR15 HIBAC CWRLD (RNAV)-STAR	1100-040
Savannah (SAV)	(Turbojets) WHITE J209 SBY J79 CHS	
West Palm Beach (PBI)	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN FRWAY (RNAV)-STAR	
	or	
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN TUXXI-STAR	
	or (Water–Turbojets–GPS or DME/DME–IRU	
	equipped) WHITE J209 SBY KEMPR DIW AR19	
	AYBID FRWAY (RNAV)-STAR	
	or (Water-Turbojets) WHITE J209 SBY KEMPR DIW	
	AR19 AYBID MIMMI NEUBE SWOMP SANZZ CASKI	
ROM WHITE PLAINS (HPN)		
Allegheny (AGC)	ELIOT J80 VINSE NESTO-STARLANNA J48 ODF WHINZ-STAR	
	(RNAV only) LANNA J48 ODF FLCON (RNAV)-STAR	
Baltimore (BWI)	BIGGY J75 MXE V378 BAL	
Binghamton (BGM)	(Turbojets) NEION J223 CORDS CFB	
Boca Raton (DC1)	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN J193 J121 CHS	
	J79 OMN CAYSL (RNAV)–STAR	
	or	
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121	
	CHS J79 OMN TUXXI-STAR	
	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) WAVEY EMJAY J174 SWL CEBEE	
	WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR or	
	(Water) WAVEY EMJAY J174 SWL CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL	
Boston (BOS)	MERIT ORW ORW-STAR	
Buffalo (BUF)	(Turbojets) NEION J223 CORDS ULW ULW306 BENEEor	
	(Turboprops) GAYEL J95 CFB V270 ULW306 BENEE	
Burlington (BTV)	GREKI V419 JUDDS CAM	
Charleston (CRW)	(Turbojets) WHITE J209 SBY J79 KATZN TYI CHS.	
Charleston (CRW)	PARKE J6 HVQ BIGGY J75 GVE LYH MAJIC-STAR	
Chicago Midway (MDW)	ELIOT J60 GSH GSH-STAR	
Chicago iviidway (iviDw)	COATE J36 FNT PAITN-STAR	0000-23

Terminals	Route	Effective Times (UTC)
Cincinnati (CVG)	(RNAV only) PARKE J6 COLNS GAVNN	(010)
	(RNAV)-STARor	
	(all others) PARKE J6 COLNS BRUSH-STAR	
Cleveland (CLE)	ELIOT J60 PSB PSB292 YNG CXR	
Columbus (CMH)	ELIOT J80 AIR AIR260 BREMN	
Dallas/Ft Worth (DFW) Dayton (DAY)	PARKE J6 LIT BYP ELIOT J80 AIR APE DANEI–STAR	
Daytona Beach (DAB)	WHITE J209 SBY J79 KATZN J193 J121 CHS J79	
Denver (DEN)	OMN ELIOT J60 IOW J10 LBF SAYGE-STAR	
Detroit Metro–Wayne Co (DTW)	GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR YQO SPICA–STAR	
Detroit Satellites: Coleman A Young (DET), Pontiac (PTK), Windsor (CYQG), Willow Run (YIP), Ann		
Arbor (ARB)	GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR YQG	
Fayetteville (FAY)	BIGGY J75 GVE SBV RDU	
Fort Lauderdale (FLL, FXE, OPF)	(Turbojets-All Others) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN GISSH-STAR	
	or (Turbojets)-/E,/G,/R,/J,/L,/Q equipped) WHITE	
	J209 SBY J79 KATZN ISO J121 CHS J79 OMN FISEL (RNAV)-STAR	
	or (Turboprops) WHITE J209 SBY J79 KATZN J193	
	J121 CHS J79 OMN MLB BLUFI–STAR	
	(Water-Turboprops-/E,/G,/R,/J,/L,/Q equipped) WHITE J209 SBY KEMPR ILM AR21 CRANS	
	FISEL (RNAV)-STAR	
Fort Myers (FMY, RSW)	(GPS or DME/DME-IRU equipped) BIGGY J75	
Fort Wayne (FWA)	GSO J75 DUNKN SHFTY (RNAV)-STAR ELIOT J80 SUZIE J64	
Greensboro (GSO)	BIGGY J75	
Greer (GSP)	BIGGY J75 GVE J37 SPA	
Hot Springs (HSP) Houston George Bush Intrcntl (IAH)	LANNA J48 EMI CSN V140 MOL	
	VUZ AEX DAS-STARor	
	(Turbojets-GPS or DME/DME-IRU equipped) LANNA J48 MOL J22 VUZ AEX TXMEX	
	(RNAV)-STAR	
Houston Hobby (HOU)	(GPS or DME/DME-IRU equipped) LANNA J48	
	MOL J22 VUZ AEX ROKIT (RNAV)–STAR	
	(non-advanced NAV only) LANNA J48 MOL J22 VUZ AEX DAS-STAR	
Indianapolis (IND)	ELIOT J80 EMPTY DQN CLANG-STAR	
Ithaca (ITH)	(Turbojets) NEION J223 CORDS CFB V423	
Jacksonville (JAX)	(Turbojets) WHITE J209 SBY J79 CHS SSI-STAR	
Lewisburg (LWB)	LANNA J48 EMI CSN V140 MOL	
Lexington (LEX)	PARKE J6 HVQ	
Laujavilla (SDE)	PARKE IS HIVO IS VOCKY DARRY STAR	
Louisville (SDF)	PARKE J6 HVQ J6 YOCKY DARBY-STAR(GPS or DME/DME-IRU equipped) BIGGY J75	
	GSO J75 DUNKN SHFTY (RNAV)-STAR or (Turbojets-GPS or DME/DME-IRU equipped)	
	WHITE J209 SBY KEMPR ILM AR15 HIBAC	
Melbourne (MLB)	SHFTY (RNAV)-STARWHITE J209 SBY J79 KATZN J193 J121 CHS J79	
	OMN BITHO-STAR	
Memphis (MEM)	PARKE J6 BWG WLDER-STAR	

PREFERRED IFR ROUTES 424 **Effective** Times Terminals Pouto Miami (MIA, TMB, HST)..... (Water-Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR DIW AR22 JORAY HILEY (RNAV)-STAR..... (Turbojets-GPS of DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN HILEY (RNAV)-STAR (Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN ANNEY-STAR (Turboprops) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN ANNEY-STAR (Water-Turboiets) WHITE J209 SBY KEMPR DIW AR22 JORAY OSOGY ENVOY YOSSI MILSY BOYUR HILEY KAINS..... COATE J36 FNT MKG V2 SUDDS..... Milwaukee (MKE) GAYEL J95 BUF YWT J63 TVC J522 GRB Minneapolis (MSP)..... EAU-STAR..... Mobile (MOB) BIGGY J75 GVE J37 MGM MVC V20 AXSIS..... Montgomery (MGM)..... BIGGY J75 GVE J37 Montreal (CYUL)..... GREKI V419 JUDDS CAM J222 PLB PLB-STAR Naples (APF) (Turbojets-GPS or DME/DME-IRU equipped) BIGGY J75 GSO J75 DUNKN SHFTY (RNAV)-STAR.... (Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC SHFTY (RNAV)-STAR..... Nashville (BNA)..... PARKE J6 YOCKY GUITR-STAR..... Norfolk (ORF)..... WHITE J209 SBY V1 CCV..... Orlando Exec (ORL) (Turbojets) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN CORLL-STAR or (GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC CWRLD (RNAV)-STAR..... 1100-0400 Orlando Intl (MCO) (Turbojets) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN BITHO-STAR (Water-Turboiets) WHITE J209 SBY KEMPR ILM AR15 HIBAC APOLO ORL (GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN CWRLD (RNAV)-STAR..... 1100-0400 (GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC CWRLD 1100-0400 (RNAV)-STAR..... Phoenix (PHX)..... ELIOT J80 AIR J110 STL J19 ZUN FOSSL-STAR.... GREKI V419 JUDDS CAM CON CON067 PARSO Portland (PWM)..... Richmond (RIC)..... WHITE J209 SBY V1 CCV HPW (Turbojets) NEION J223 CORDS ULW V31 GIBBE.. Rochester (ROC) Salt Lake City (SLC) GAYEL J95 BUF J16 ECK J16 BAE DBO J94 OCS OGD Savannah (SAV) (Turbojets) WHITE J209 SBY J79 CHS..... St. Louis (STL)..... ELIOT J80 AIR J110 VHP VLA-STAR St. Petersburg (PIE)..... BIGGY J75 TAY LZARD-STAR Syracuse (SYR)..... (Turbojets) NEION J223 CORDS CFB V29 Tampa (TPA)..... BIGGY J75 TAY LZARD-STAR (GPS or DME/DME-IRU equipped) BIGGY J75 TAY DADES (RNAV)-STAR Toledo (TOL)..... ELIOT J60 DJB VWV

(UTC)

Effective Times

Terminals	Route	(UTC)
Toronto (CYYZ)	GAYEL J95 BUF V36	(010)
Tri City (TRI)	LANNA J48 MOL J22 PSK V16 HMV	
Washington Dulles (IAD)	PARKE J6 LRP V143 MULRR AML	
Washington Natl (DCA)	BIGGY J75 MXE V378 BAL	
	(GPS or DME/DME-IRU equipped) BIGGY J75	
	MXE CLIPR (RNAV)—STAR	
West Palm Beach (PBI)	(Water-Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR DIW AR19 AYBID FRWAY (RNAV)-STAR or	
	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN FRWAY-STAR	
	Or	
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN TUXXI-STAR or	
	(Water-Turbojets) WHITE J209 SBY KEMPR DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ	
TO THE CONTROL OF THE	CASKI	
Winston/Salem (INT)	BIGGY J75 GSO	
Youngstown (YNG)	ELIOT J60 PSB PSB292060	
NORFOLK (ORF) Chicago O'Hare (ORD)	MOL GEFFS J149 FWA KNOX-STAR	
	MOL GEFFS J149 ROD WATSN (RNAV)-STAR	
Cincinnati (CVG)	(at or above FL240) WAIKS ORF290 KELLE	
	MOL130 MOL HNN090/50 HNN BRUSH-STAR . or	
	(at or below FL220) WAIKS ORF290 KELLE MOL130 MOL HNN BRUSH-STAR or	
	or (RNAV only–at or above FL240) WAIKS KELLE	
	MOL HNN090/50 HNN GAVNN (RNAV)-STAR or	
	(RNAV only-at or below FL220) WAIKS KELLE	
Detroit Metro Wayne Co (DTW)	MOL HNN GAVNN (RNAV)-STAR WAIKS ORF290 KELLE MOL130 MOL GEMNI-STAR	
Houston George Bush Intcntl (IAH)	GEMNI-STAR (Turbojets-GPS or DME/DME-IRU equipped) VUZ AEX TXMEX (RNAV)-STAR	
	or	
Houston Hobby (HOU)	(non-advanced NAV only) VUZ AEX DAS-STAR (GPS or DME/DME-IRU equipped) VUZ AEX ROKIT (RNAV)-STAR	
	or	
	(non-advanced NAV only) VUZ AEX DAS-STAR	
Islip (ISP)	SCHOL SBY200 J121 SARDI CCC	1100-0400
Kennedy (JFK)	SCHOL SBY 200 J121 SIE CAMRN-STAR	1100-0400
La Guardia (LGA)	HPW V213 PXT KORRY-STAR HPW HPW025 J14 PXT DYLIN-STAR	1100-0300
Newark (EWR)	or (GPS or DME/DME-IRU equipped) HPW HPW025	
	J14 PXT PHLBO (RNAV)-STAR	
Philadelphia (PHL)	SCHOL SBY200 V139 RADDS VCN-STAR	1100-0400
Teterboro (TEB)	HPW V213 PXT JAIKE-STARor	1100-0300
	(non advanced navigation, turbojets only) WAIKS ORF290079 FAK BRV AML J227 J49 J70 LVZ	1100 0300
PHILADELPHIA METRO AREA (PHL, PNE)	LVZ-STAR	1100-0300
Albany (ALB)	DITCH J225 JFK244016 LGA LGA055 V487 CANAN V130	
Atlanta (ATL)	MXE MXE278 PENSY J48 ODF WHINZ-STAR	
Atlatica (ATL)	MINE MINEZ TO FEMOLITHO ODE WITHING STAIL	

Route

426 PREFERRED IFR ROUTES

Boca Raton (BCT).....

Boston (BOS) Buffalo (BUF)..... Burlington (BTV)..... Charleston (CHS) Charlotte (CLT) Chicago Midway (MDW).....

Chicago O'Hare (ORD)

Cincinnati (CVG).....

Cleveland (CLE) Columbus (CMH)..... Dallas/Fort Worth (DFW)..... Dayton (DAY) Denver (DEN)..... Detroit Metro-Wayne Co (DTW)

Coleman A Young (DET), Windsor (CYQG), Pontiac (PTK) Willow Run (YIP) Fort Lauderdale (FLL).....

Detroit Satellites:

Terminals

(Turbojets=/L,/d,/K,/J,/L,/Q equipped) OOD
TEBEE HAYDO SBY J79 KATZN ISO J121 CHS
J79 OMN CAYSL (RNAV)-STAR
or
(Turbojets-All Others) OOD TEBEE HAYDO SBY
J79 KATZN ISO J121 CHS J79 OMN
TUXXI-STAR
or
(Water–Turbojets–/E,/G,/R,/J,/L,/Q equipped)
OOD TEBEE HAYDO SBY J209 ORF KEMPR DIW
AR19 AYBID CAYSL (RNAV)-STAR
or
(Water-Turbojets-All Others) OOD TEBEE HAYDO
SBY J209 ORF KEMPR DIW AR19 AYBID NEUBE
SWOMP SANZZ CAYSL (RNAV)-STAR
DITCH J225 JFK ORW-STAR
PTW PTW320 J64 RAV RAV312 BUF162
DITCH J225 JFK J222 CAM
(Turbojets) OOD TEBEE HAYDO SBY J79 CHS
MXE J75 GVE LYH MAJIC-STAR
PTW PTW320 SARAA RAV PSB J60 GSH
GSH-STAR
PTW PTW320 J64 FWA OXI-STAR
or
(GPS OR DME/DME-IRU equipped) PTW PTW320
SARMA J64 MAINE ZANLA WATSN
(RNAV)-STAR
(RNAV only) MXE PENSY J110 FLIRT J6 COLNS
GAVNN (RNAV)-STAR
or
(all others) MXE PENSY J110 FLIRT J6 COLNS
BRUSH-STAR
PTW PTW320 J64 RAV PSB PSB292 YNG CXR
MXE MXE278 PENSY J110 AIR BREMN-STAR
MXE MXE278 PENSY J110 AIR BREWIN-STAR
BONHAM-STAR
MXE MXE278 PENSY J110 AIR APE DANEI-STAR
PTW PTW320 J64 RAV PSB J60 IOW J10 LBF
SAYGE-STAR
MXE MXE278 PENSY J110 LEJOY J518 DJB
GEMNI-STAR
GEWINI-STAIN
PTW PTW320 J64 RAV PSB LLEEO-STAR
PTW PTW320 J64 RAV PSB ERI
(Water-Turboprops-GPS or DME/DME-IRU
equipped) OOD TEBEE HAYDO SBY KEMPR ILM
AR21 CRANS FISEL (RNAV)-STAR
or
(Turbojets-GPS or DME/DME-IRU equipped) OOD
TEBEE HAYDO SBY J79 KATZN ISO J121 CHS
J79 OMN FISEL (RNAV)-STAR
or
(Water-Turbojets-GPS or DME/DME-IRU
equipped) OOD TEBEE HAYDO SBY KEMPR ILM
AR21 CRANS FISEL (RNAV)-STAR
or
(Turbojets) OOD TEBEE HAYDO SBY J79 KATZN
ISO J121 CHS J79 OMN GISSH-STAR
or
(Water-Turboprops) OOD TEBEE HAYDO SBY
KEMPR ILM AR21 CRANS HILL FATHR
GISSH-STAR

(RNAV only) MXE MXE278 PENSY J48 ODF FLCON (RNAV)-STAR..... (Turbojets-/E,/G,/R,/J,/L,/Q equipped) OOD

Effective Times

(UTC)

0000-2359

NE. 23 SEP 2010 to 18 NOV 2010

Effective

PREFERRED IFR ROUTES

	Effective Times (UTC)
E HAYDO SBY HIILL FATHR	
YDO SBY J79 KATZN MLB BLUFI-STAR pped) MXE J75 GSO -STAR	
EE HAYDO SBY KEMP	
IBY	0000-2359
(E MXE278 PENSY S-STAR	
E-IRU equipped) MXE J22 VUZ AEX TEXMX	
pped) MXE MXE278 AEX ROKIT	
(E MXE278 PENSY S-STAR	
IR J80 EMPTY DQN	
OO SBY J79 CHS	
SPI BRAYMER-STAR	
DL J22	
DL V140 COVEY	
EJOY HVQ LIRT J6 YOCKY	
NI MALIT	
N MHT pped) MXE J75 GSO	
-STAR	
LIRT J6 BWG	
E HAYDO SBY	
DSOGY ENVOY YOSSI S	
(U equipped) OOD	
R DIW AR22 JORAY	
OO SBY J79 KATZN NNEY-STAR	
E-IRU equipped) OOD TZN ISO J121 CHS	
ΓAR	
YDO SBY J79 KATZN	
ANNEY-STAR 60 DJB J34 J70	
60 DJB J34 BAE	
LB-STAR	
E-IRU equipped) MXE FY (RNAV)-STAR	
	60 DJB J34 BAEB-STAR

Effective Times (UTC)

To act of	P. 1	Times
Terminals Nashville (BNA)	Route MXE MXE278 PENSY J110 FLIRT J6 YOCKY	(UTC)
	GUITR-STAR	
New Orleans (MSY)	MXE MXE278 PENSY J48 MOL J22 MEI RYTHM-STAR	
Newport News (PHF)	OOD OOD198 SBY018 SBY VI CCV	
Orlando Executive (ORL)	00D 00D198 SBY018 SBY J79 KATZN J193	
Orlando Intl (MCO)	J121 CHS J79 OMN CORLL-STAR OOD OOD198 SBY018 SBY J79 KATZN J193	1100-0300
Oriando inti (WOO)	J121 CHS J79 OMN BITHO-STAR	1100-0300
	or	ŀ
	(Water-Turbojets) OOD TEBEE HAYDO SBY KEMPR ILM AR15 HIBAC APOLO ORL	!
	Or	ŀ
	(GPS or DME/DME-IRU equipped) 00D 00D198	!
	SBY018 SBY J79 KATZN J193 J121 CHS J79 OMN CWRLD (RNAV)-STAR	1100-0400
	or	1100.0
	(GPS or DME/DME-IRU equipped) OOD TEBEE	ŀ
	HAYDO SBY KEMPR ILM AR15 HIBAC CWRLD (RNAV)-STAR	1100-0400
Pittsburgh (PIT)	MXE MXE278 PENSY J110 VINSE NESTO-STAR	1100 0.0.
Portland (PWM)	DITCH V312 DRIFT CCC BOS BOSO48 MESHL	1100-0300
Providence (PVD)	DITCH V312 DRIFT J121 HTO JORDN-STAR or	ĺ
	(Turbojet, NonAdvanced Navigation) DITCH V312	ļ
C. C	DRIFT J121 HTO V268 MINNK	ļ
Raleigh/Durham (RDU) Richmond (RIC)	00D 00D198 SBY018 SBY ARGAL-STAR 00D 00D198 SBY018 SBY V1 CCV HPW	ĺ
Roanoke (ROA)	MXE MXE278 PENSY J48 MOL	ļ
Rochester (ROC)	PTW PTW320 J64 RAV RAV312 J227 ULW V31	ļ
San Francisco (SFO)	GIBBE PTW PTW320 J64 HLC J80 OAL MOD-STAR	ĺ
Sarasota/Bradenton (SRQ)	MXE J75 TAY J85 GNV GNV174055 LAL	ĺ
Savannah (SAV)	ODD TEBEE HAYDO SBY J79 CHS	ļ
St. Louis (STL) St. Petersburg (PIE)	MXE MXE278 PENSY J110 VHP VLA-STAR MXE J75 TAY LZARD-STAR	ļ
Tampa (TPA)	MXE J75 TAY LZARD-STAR	
	or (GPS or DME/DME-IRU equipped) MXE J75 TAY	
	DADES (RNAV)-STAR	
Toronto (CYYZ)	PTW PTW320 J64 RAV PSB J61 BUF V36	
West Palm Beach (PBI)	(Turbojets-GPS or DME/DME-IRU equipped) OOD TEBEE HAYDO SBY J79 KATZN J193 J121 CHS	
	J79 OMN FRWAY (RNAV)-STAR	
	or	
	(Turbojets) OOD TEBEE HAYDO SBY J79 KATZN ISO J121 CHS J79 OMN TUXXI-STAR	
	or	
	(Water-Turbojets GPS or DME/DME-IRU	
	equipped) OOD TEBEE HAYDO SBY KEMPR DIW AR19 AYBID FRWAY (RNAV)-STAR or	
	(Water-Turbojets) OOD TEBEE HAYDO SBY KEMPR DIW AR19 AYBID MIMMI NEUBE	
	SWOMP SANZZ CASKI	
White Plains (HPN)	DITCH V312 CYN BOUNO-STAR DITCH J225 JFK DPK DPK-STAR	
PITTSBURGH (PIT)		
Albany (ALB) Boston (BOS)	EWC EWC050 J584 SLT RKA RKA099 V449 EWC EWC050 J584 SLT J190 ALB GDM	
B05ton (B00)	GDM-STAR	
Buffalo (BUF)	EWC EWC038 EWC038060 DKK BUF	
Chicago Midway (MDW) Chicago O'Hare (ORD)	BSV BSV297 MAYZE J60 GSH GSH-STAR BSV BSV286 OXI095 OXI OXI-STAR	1100-0300
Cilicago o riare (OND)	Or	1100 000.
	BSV ZANLA WATSN (RNAV)-STAR	

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Fort Lauderdale (FLL)	(/E, /G, /R, /J, /L, /Q) CKB CKB197 PSK014 PSK CAE SAV J103 OMN FISEL (RNAV)-STAR	(010)
	or (all others) CKB CKB197 PSK014 PSK CAE SAV J103 OMN GISSH-STAR	
Houston George Bush Intrcntl (IAH)	(Turbojets-GPS or DME/DME-IRU equipped) LIT J180 SWB TXMEX (RNAV)-STAR or	
	(non-advanced NAV only) LIT J180 SWB DAS-STAR	
Houston Hobby (HOU)	(GPS or DME/DME-IRU equipped) LIT J180 SWB ROKIT (RNAV)-STAR or	
	(non-advanced NAV only) LIT J180 SWB DAS-STAR	
Islip (ISP)	EWC EWC050 J584 SLT J190 CFB HNK J68 V130 ORW V308 BOROS CCC	
Kennedy (JFK)	EWC EWC050 J584 SLT J190 J70 LVZ LENDY-STAR	
La Guardia (LGA)	TON PSB MIP-STAR	
Miami (MIA)	(/E, /G, /R, /J, /L, /Q) CKB CKB197 PSK014 PSK CAE SAV J103 OMN HILEY (RNAV)-STAR or	
	(all others) CKB CKB197 PSK014 CAE SAV J103 OMN ANNEY-STAR	
Newark (EWR)	EWC EWC050 J584 SLT FQM-STAR	
Philadelphia (PHL) Tampa (TPA)	JST J152 HAR V210 BUNTS CKB197 PSK014 PSK CAE J75 TAY LZARD-STAR.	
,	or (GPS or DME/DME-IRU equipped) CKB197 PSK014 PSK CAE J75 TAY DADES	
White Plains (HPN)	(RNAV)-STAR (Above 250 kts) EWC EWC050 J584 SLT J190 CFB DNY280 DNY VALRE-STAR	
	or (250 kts or less) EWC EWC050 J584 SLT J190 CFB DNY280 DNY NOBBI-STAR	
Windsor Locks (BDL)	EWC EWC050 J584 SLT RKA SWEDE-STAR	
ORTLAND (PWM)	CAM CVD ICO FILMANI VVII IE 47 ENT	
Cincinnati (CVG)	CAM SYR J63 EHMAN YXU J547 FNT PAITN-STAR (RNAV only) ENE J547 SYR JOSSY MAULL KODIE	1100-0300
omoninaa (ova)	CTW TIGRR (RNAV)-STARor	
	(all others) ENE J547 SYR J29 KELIE SLT016 SLT SLT249 KODIE CTW081 CTW CINCE-STAR	
La Guardia (LGA) Newark (EWR)	CON CAM ALB PWL IGN V157CON CAM ALB V213 SAX	1100-0300 1100-0300
Philadelphia (PHL)	PSM WITCH CCC SHERL J121 BRIGS VCN-STAR	1100-0300
Pittsburgh (PIT)	CAM ALB J49 HNK HNK271 J190 SLT GRACE-STAR	1100-0300
Washington Dulles (IAD)	PSM WITCH GLYDE BAF J77 SAX J6 LRP DELRO-STAR	1100-0300
ROVIDENCE (PVD)	BUT DAT 177 BTW 46 00-111111	4400
Atlanta (ATL)	PUT BAF J77 PTW J48 ODF WHINZ-STARor (RNAV only) PUT BAF J77 PTW J48 ODF FLCON	1100-0300
	(RNAV)-STAR	1100-0300
Baltimore (BWI)	PUT PUT283 NELIE CMK J75 MXE V378 BAL (Turbojets-GPS or DME/DME-IRU equipped) PVD180 JUMPR MVY260 RIFLE J174 ORF ISO J121 CHS J79 OMN CAYSL (RNAV)-STAR	1100-0300
	or (Turbojets) PVD180 JUMPR MVY260 RIFLE J174 ORF ISO J121 CHS J79 OMN TUXXI-STAR	

PH	KELEKKEN ILK KAAIE2	
erminals	Route	Effective Times (UTC)
	or (Water-GPS or DME/DME-IRU equipped) PVD180 JUMPR MYY260 J174 SWL CEBEE WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR	
	or (Water-Turbojets) PVD180 JUMPR MVY260 J174 SWL CEBEE WETRO DIW AR19 AYBID NEUBE SWOMP SANZZ CAYSL (RNAV)-STAR	
Chicago O'Hare (ORD)	PUT CTR CAM SYR J63 EHMAN YXU J547 FNT PAITN-STAR	1100-030
Cincinnati (CVG)	(RNAV only) CTR HNK J49 PSB MAULL KODIE CTW TIGRR (RNAV)-STAR	1100-030
	(all others) CTR HNK J49 PSB PSB281 MAULL SLT249 KODIE CTW081 CTW CINCE-STAR	
Detroit Metro-Wayne Co (DTW) Detroit Satellites: Coleman A Young (DET), Windsor	PUT CTR CAM SYR J547 BUF YQO SPICA-STAR	1100-030
(CYQG), Pontiac (PTK), Willow Run	DUT OTD OAM IS 47 DUE VOO	1100 020
(YIP), Ann Arbor (ARB)	PUT CTR CAM J547 BUF YQO	1100-030
	(RNAV)-STAR	1100-030
	(Water-Turboprops-GPS or DME/DME-IRU equipped) PVD180 JUMPR MVY260 RIFLE J174 SWL CEBEE WETRO ILM AR21 CRANS FISEL	
	(RNAV)-STAR	1100-030
	(Turbojets-GPS or DME/DME-IRU equipped) PVD180 JUMPR MVY260 RIFLE J174 ORF ISO J121 CHS J79 OMN FISEL (RNAV)-STAR	
	or (Turboprops) PVD180 JUMPR MVY260 RIFLE J174 ORF J121 CHS J79 OMN MLB	4400.000
	BLUFI-STAR or (Turbojets) PVD180 JUMPR MVY260 RIFLE J174 ORF ISO J121 CHS J79 OMN GISSH-STAR	1100-030
	or (Water–Turboprops) PVD180 JUMPR MVY260 RIFLE J174 SWL CEBEE WETRO ILM AR21	
	CRANS HIILL FATHR GISSH-STAR	
	or (Water-Turbojets) PVD180 JUMPR MVY260 J174 SWL CEBEE WETRO ILM AR21 CRANS HIILL FATHR GISSH-STAR	1100-030
Fort Myers (RSW)	(WATER-Turbojets) PVD180 JUMPR MVY J174 SWL CEBEE WETRO ILM AR15 HIBAC SHFTY	
La Guardia (LGA)	(RNAV)-STAR(Above 250 kts) PUT BAF IGN V157or	1100-030 1100-030
	(250 kts or less) PUT BAF V106 PWL V405 CASSH V123 HAARP	1100-030
Miami (MIA)	(Water) PVD180 JUMPR MVY260 J174 SWL CEBEE WETRO DIW AR22 JORAY OSOGY ENVOY YOSSI MILSY BOYUR HILEY KAINS	1100-030
	or (Water-GPS or DME/DME-IRU equipped) PVD180 JUMPR MVY260 J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAV)-STAR	
	or (Turbojets) PVD180 JUMPR MVY260 RIFLE J174 ORF ISO J121 CHS J79 OMN ANNEY-STAR or	

PREFERRED IFR ROUTES

(Turbojets-GPS or DME/DME-IRU equipped)
PVD180 JUMPR MVY260 RIFLE J174 ORF ISO
J121 CHS J79 OMN HILEY (RNAV)-STAR......
or
(Turboprops) PVD180 JUMPR MVY260 RIFLE
J174 ORF J121 CHS J79 OMN ANNEY-STAR....

PUT CTR CAM SYR J547 BUF YWT J63 TVC J522 GRB EAU-STAR

V146 BAF V292 V213 SAX

(250 kts or less) V146 BAF V292 V489 COATE ...

PVD180 JUMPR MVY260 J174 ORF J121 CHS
J79 OMN CORLL-STAR

Route

Terminals

READING (RDG)

Minneapolis/St Paul (MSP)

Newark (EWR).....

Orlando Executive (ORL)

Effective Times (UTC)

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1100-0300

1100-0300

1100-0300

1100-0300

1100-0300

1100-0300

	or	1100-0300
	(GPS or DME/DME-IRU equipped) PVD180	
	JUMPR MVY260 J174 SWL CEBEE WETRO ILM	
	AR15 HIBAC CWRLD (RNAV)-STAR	1100-0400
Orlando Intl (MCO)	PVD180 JUMPR MVY260 J174 ORF J121 CHS	
	J79 OMN BITHO-STAR	1100-0300
	or	
	(Water-Turbojets) PVD180 JUMPR MVY260 J174	
	SWL CEBEE WETRO ILM AR15 HIBEC APOLO	
	ORL	
	or	
	(GPS or DME/DME-IRU equipped) PVD180	
	JUMPR MVY260 J174 ORF J121 CHS J79 OMN	
	CWRLD (RNAV)-STAR	1100-0400
	(GPS or DME/DME-IRU equipped) PVD180	
	JUMPR MVY260 J174 SWL CEBEE WETRO ILM	
	AR15 HIBAC CWRLD (RNAV)-STAR	1100-0400
Philadelphia (PHL)	PVD180 JUMPR MVY260 J121 PLUME V139	1100 0.00
	BRIGS VCN-STAR	1100-0300
Pittsburgh (PIT)	PUT CTR HNK HNK271 J190 SLT GRACE-STAR	1100-0300
Raleigh-Durham (RDU)	PVD180 JUMPR MVY260 RIFLE J174 SWL	
-	ARGAL-STAR	1100-0300
St. Louis (STL)	PUT BAF J77 SAX J80 J110 VHP VLA-STAR	1100-0300
Tampa (TPA)	PUT PUT283 NELIE CMK J75 TAY LZARD-STAR	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) PUT PUT283	
	NELIE CMK J75 TAY DADES (RNAV)-STAR	1100-0300
Washington Dulles (IAD)	PUT BAF J77 SAX J6 LRP DELRO-STAR	1100-0300
Washington Natl (DCA)	PVD180 JUMPR MVY260 J174 ATR085 ATR V308	
	BILIT	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) PVD180	
	JUMPR MVY260 J174 ATR085 ATR V308 LAFLN	
	BILIT (RNAV)-STAR	1100-0300
West Palm Beach (PBI)	(Turbojets-GPS or DME-DME/IRU equipped)	
	PVD180 JUMPR MVY260 RIFLE J174 ORF ISO	
	J121 CHS J79 OMN FRWAY (RNAV)-STAR	1100-0300
	or	
	(Turbojets) PVD180 JUMPR MVY260 RIFLE J174	

or

Detroit Metro Wayne Co (DTW)...... KIPPI J80 J518 DJB GEMNI-STAR

NE. 23 SEP 2010 to 18 NOV 2010

ORF ISO CHS J79 OMN TUXXI-STAR

(Water-GPS or DME/DME-IRU equipped) PVD180 JUMPR MVY260 J174 SWL CEBEE WETRO DIW AR19 AYBIB FRWAY (RNAV)-STAR

(Water-Turbojets) PVD180 JUMPR MVY260 J174 SWL CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CASKI......

Terminals	Route	Effective Times (UTC)
RICHMOND (RIC) Cincinnati (CVG)	(RNAV only-at or above FL240) YEAST MOL HNN090/50 HNN GAVNN (RNAV)-STAR	
	or (RNAV only-at or below FL220) YEAST MOL HNN GAVNN (RNAV)-STAR	
	or (all others at or above FL240) YEAST-DP MOL HNN090/50 HNN BRUSH-STAR	
	or (all others at or below FL220) YEAST-DP MOL HNN BRUSH-STAR	
Detroit Metro Wayne Co (DTW) Houston George Bush Intrcntl (IAH)	YEAST-DP MOL GEMNI-STAR (Turbojets-GPS or DME/DME-IRU equipped) VUZ AEX TXMEX (RNAV)-STAR	
Houston Hobby (HOU)	(non-advanced NAV only) VUZ AEX DAS-STAR (GPS or DME/DME-IRU equipped) VUZ AEX ROKIT (RNAV)- STAR	
DOANOVE (DOA)	or (non-advanced NAV only) VUZ AEX DAS-STAR	
ROANOKE (ROA) Detroit Metro Wayne Co (DTW) ROCHESTER (ROC)	BKW GEMNI-STAR	
Cincinnati (CVG)	(RNAV only) GEE BURST MAULL KODIE CTW TIGRR (RNAV)-STAR	
	(all others) GEE GEE204 BURST SLT013 SLT SLT249 KODIE CTW081 CTW CINCE-STAR	
Detroit Satellites: Coleman A Young (DET), Pontiac (PTK), Ann Arbor (ARB), Windsor (CYQG),		
Willow Run (YIP)	YXU PICES-STAR or YXU GOHMA-STARR	1100-030
	or	1100-030
La Guardia (LGA)	YXU SWWAN-STAR(Above 250 kts) V34 BEEPS J522 EXTOL RKA RKA HAARP-STAR	1100-030
Newark (EWR)	or (250 kts or less) V34 BEEPS DNY NOBBI-STAR (Above 250 kts) V34 BEEPS J522 HNK SHAFF-STAR	
	or (250 kts or less) V34 BEEPS J522 HNK V167	
Philadelphia (PHL)	WEARD V489 COATEGEE SLT PSB HAR V210 BUNTS	
STATE COLLEGE (UNV) Detroit Metro Wayne Co (DTW)	PSB ERI SPICA-STAR	
SYRACUSE (SYR)		
Cincinnati (CVG)	(RNAV only) SYR DINES MAULL KODIE CTW TIGRR (RNAV)-STAR	
	(all others) SYR V483 DINES GEE GEE204 KELIE SLT013 SLT SLT249 KODIE CTW081 CTW CINCE-STAR	
Detroit Satellites: Coleman A Young (DET), Pontiac (PTK), Windsor (CYQG), Ann Arbor (ARB),	SHOLE STATE	
Willow Run (YIP)	BUF YXU PICES-STARor	
	BUF YXU GOHMA-STAR	1100-0300
	or BUF YXU SWWAN-STAR	1100-0300

PK	REFERRED IFR ROUTES	433
Terminals	Route	Effective Times (UTC)
TORONTO (CYYZ)	Noute	(010)
Cincinnati (CVG)	(RNAV only) THORL JHW MAULL KODIE CTW TIGRR (RNAV)-STAR	
	(all others) THORL JHW JHW194 MAULL SLT249 KODIE CTW081 CTW CINCE-STAR	
Detroit Metro Area:		
Willow Run (YIP), Pontiac (PTK) Coleman		
A Young (DET), Windsor (CYQG) La Guardia (LGA)	ANCOL V104 YXU PICES-STAR(Above 250 kts) V252 GEE RKA-STARor	1100-0300
	(250 kts or less) V252 GEE V14 BEEPS J522 EXTOL RKA292 RKA NOBBI-STAR	
San Francisco (SF0)	GRB J106 GEP J70 ABR J32 FMG ILA PYE	
WASHINGTON/BALTIMORE METRO AREA (DO	CA, BWI, IAD)	
Asheville (AVL)	FLUKY DCA246 PAUKI MOL J22 PSK SUG	1100-0300
Atlanta (ATL)	FLUKY DCA246 PAUKI MOL WHINZ-STAR or	1100-0400
	(RNAV only) FLUKY DCA246 PAUKI MOL FLCON	
Ringhamton (RCM)	RNAV-STARJERES J227 BABEE CFB	1100-0300
Binghamton (BGM) Birmingham (BHM)	FLUKY DCA246 PAUKI MOL J22 VUZ	1100-0400 1100-0300
Boston (BOS)	(turbojets) SWANN V268 BROSS J42 RBV J222 JFK ORW-STAR	1100-0300
	or (Turboprops only) PALEO-DP SIE J121 HTO V308 ORW V16 WOONS	
Buffalo (BUF)	JERES J220 BUF162	1100-0300
Charleston (CHS)	DAILY J61 HUBBS J193 WEAVR J121	1100-0400
Chattanooga (CHA)	FLUKY DCA246 PAUKI MOL J22 VXV	1100-0300
Chicago Midway (MDW) Chicago O'Hare (ORD)	AML J149 FWA GSH-STAR AML J149 FWA KNOX-STAR or	1100-0300 0000-2359
Cincinnati (CVG)	AML J149 ROD WATSN (RNAV)-STAR	0000–2359
Detroit Metro Wayne Co (DTW)	BUFFR J518 IHD J518 DJB GEMNI-STAR or	
	AML J149 SINDE GEMNI-STAR	1100-0400
Detroit Satellites: Coleman A Young (DET), Windsor (CYQG), Pontiac (PTK), Willow Run		
(YIP), Ann Arbor (ARB) Fort Lauderdale (FLL)	JERES J211 J60 HAGUD LLEEO-STAR (Turbojets) DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN GISSH-STAR	
	(Turboprops) DAILY J61 HUBBS J193 J121 CHS J79 OMN MLB BLUFI-STAR	
	(Water-Turboprops) DAILY J61 EDDYS J174 ILM AR21 CRANS HILL FATHR GISSH-STAR or	
Fort Myers (FMY, RSW)	(Water-Turbojets) DAILY J61 HUBBS KEMPR ILM AR21 CRANS HIILL FATHR GISSH-STAR (Turbojets-GPS or DME/DME-IRU equipped)	
	HAFNR GVE J75 DUNKN SHFTY (RNAV)-STAR	
Fort Wayne (FWA) Houston George Bush Intenti (IAH)	AML J149 (non-advanced NAV only) FLUKY DCA246 PAUKI MOL J22 VUZ AEX DAS-STAR	1100-0300 1100-0300
	or (Turbojets-GPS DME/DME-IRU equipped) FLUKY	
	DCA246 PAUKI MOL J22 VUZ AEX TXMEX (RNAV)-STAR	1100-0300
Houston Hobby (HOU)	(GPS or DME/DME-IRU equipped) FLUKY DCA246	

		Effectiv
erminals	Route	Times (UTC)
	(non-advanced NAV only) FLUKY DCA246 PAUKI	
Indianapolis (IND)	MOL J22 VUZ AEX DAS-STAR AML J149 EMPTY DQN CLANG-STAR	1100-03
Jacksonville (JAX)	DAILY J61 HUBBS J193 J121 CHS SSI-STAR	1100-04
Knoxville (TYS)	FLUKY DCA246 PAUKI MOL 22	1100-04
La Guardia (LGA)	PALEO V44 AGARD KORRY-STAR	1100-04
Louisville (SDF)	LDN J134 COLNS J6 UNCKL DARBY-STAR	1100-03
Miami (MIA)	(Turbojets) DAILY J61 HUBBS J193 J121 CHS J79 VRB HEATT -STAR	
	or (Turboprops) DAILY J61 HUBBS J193 J121 CHS J79 VRB J45 ABLUFI AR1	
	(Water) DAILY J61 EDDYS J174 DIW AR14 METTA	
	AR1 HOBEE HEATT -STAR	
Milwaukee (MKE)	BUFFR J518 DJB J34 ALPHE J70 PMM V170 BRAVE	
Minneapolis (MSP)	BUFFR J518 DJB J34 BAE EAU-STAR	
New Orleans (MSY)	FLUKY DCA246 PAUKI MOL J22 MEI J31	1100-03
Orlando Intl (MCO)	DAILY J61 HUBBS J193 J121 CHS J79 OMN	
	BITHO-STARor	1100-0
	(Water) DAILY J61 EDDYS J174 DIW AR14 METTA	
Ditto burgh (DIT)	AR1 HOBEE AR6 ORL	1100-0
Pittsburgh (PIT)	BUFFR IHD NESTO-STAR	1100 0
Rochester (ROC)	JERES J227 ULW V31 GIBBE	1100-0
Sarasota/Bradenton (SRQ)	HAFNR GVE J75 TAY J85 GNV LAL JERES J227 BABEE CFB	1100-0
Tampa (TPA)	HAFNR GVE J75 TAY LZARD-STAR	1100-0
.apa (117)	or	1100-0
	(GPS or DME/DME-IRU equipped) HAFNR GVE	
	J75 TAY DADES (RNAV)—STAR	1100-0
Teterboro (TEB)	(non-advanced navigation, turbojet only) JERES J227 J49 J70 LVZ LVZ-STAR	1100-0
	or	
	(advanced navigation, turbojet only) SWANN JAIKE-STAR	1100-0
Toledo (TOL)	(FL180 and above) J211 J64 EWC MFD VWV	
West Palm Beach (PBI)	(Water) DAILY J61 EDDYS J174 DIW AR14 METTA AR1 HOBEE SURFN-STAR	1100-0
	or DAILY J61 HUBBS J193 J121 CHS J79 OMN	
	SURFN-STAR	1100-0
Windsor Locks (BDL)	SWANN V268 BROSS J42 RBV J222 JFK DPK DPK-STAR	1100-0
rom BALTIMORE (BWI) only		1100-0
Albany (ALB)	SWANN-DP 00D J42 RBV LGA LGA055 V487	
Dana Datas (DOT)	CANAN V130	1100-0
Boca Raton (BCT)	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) DAILY J61 HUBBS KEMPR WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR or	
	(Water-Turbojets) DAILY J61 HUBBS KEMPR	
	WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) DAILY J61 HUBBS J193 HCM ISO J121 CHS	
	J79 OMN CAYSL (RNAV)-STAR or	
	(Turbojets) DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN TUXXI-STAR	
Boston (BOS)	(Turbojets) SWANN-DP OOD J42 RBV J222 JFK ORW-STAR	
	or	

T	Doub	Effective Times
Terminals	Route (Turboprops) PALEO-DP SIE J121 HTO V308 ORW	(UTC)
Bridgeport (BDR)	V16 W00NS PALEO-DP SIE J121 MAD193 KEYED	1100-0300
Charleston (CHS)	(Turbojets) DAILY J61 HUBBS J193 HCM FKN J79 CHS	1100-0300
Chicago (MDW)	AML J149 FWA GOSHEN-STAR AML J149 ROD WATSN (RNAV)-STAR	
Dallas/Forth Worth (DFW)	AML J149 FWA KNOX-STAR(RNAV only) TERPZ-DP LDN J134 COLNS J6 HVQ	0000-2359
Danas/Total Words (DI W)	J6 LIT BONHAM-STAR	1100-0300
	LDB J134 COLNS J6 HVQ J6 LIT BONHAM-STAR .	1100-0300
Dayton (DAY)	AML J149 HACKS APE DANEI-STAR	1100-0400
Denver (DEN)	TERPZ (RNAV)-DP LDN J134 HNN J134 STL J110	
	GCK J154 RYLIE DANDD-STAR	1100-0300
	or LDN J134 HNN J134 STL J110 GCK J154 RYLIE	
	DANDD-STAR	1100-0300
Fort Lauderdale (FLL, FXE, OPF)	(Turboprops) V93 PXT V213 COLIN HCM J193	1100 0000
	J121 CHS J79 OMN MLB BLUFI-STAR	
	or	
	(Water-Turboprops) V93 PXT V213 COLIN HCM ILM AR21 CRANS HIILL FATHR GISSH-STAR	
	Or	
	(Turbojets-GPS or DME/DME-IRU equipped) DAILY J61 HUBBS J193 HCM ISO J121 CHS	
	J79 OMN FISEL (RNAV)-STAR	
	(Turbojets) DAILY J61 HUBBS J193 HCM ISO	
	J121 CHS J79 OMN GISSH-STAR	
	or	
	(Water-Turboprops-GPS or DME/DME-IRU	
	equipped) V93 PXT V213 COLIN HCM ILM AR21 CRANS FISEL (RNAV)—STAR	
	Of	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) DAILY J61 HUBBS KEMPR ILM AR21	
	CRANS FISEL (RNAV)—STAR	
	(Water-Turbojets) DAILY J61 HUBBS KEMPR ILM	
	AR21 CRANS HILL FATHR GISSH-STAR	
Fort Myers (FYM, RSW)	(Turbojets-GPS or DME/DME-IRU equipped)	
	HAFNR GVE J75 DUNKN SHFTY (RNAV)-STAR	
	or (WATER-Turbojets-GPS or DME/DME-IRU	
	equipped) DAILY J61 HUBBS KEMPR ILM AR15	
	HIBAC SHFTY (RNAV)-STAR	
Hartford (HFD)	SWANN-DP OOD J42 RBV J222 JFK DPK MAD V1 .	1100-0300
Islip (ISP)	PALEO-DP SIE J121 SARDI CCC	1100-0300
Jacksonville (JAX)	(Turbojets) DAILY J61 HUBBS J193 HCM FKN J79	
Kansas City (MCI)	CHS SSI-STAR TERPZ (RNAV)-DP LDN J134 HNN J134 STL MCM	
Tunious only (Mor)	BRAYMER-STAR	1100-0300
	LDN J134 HNN J134 STL MCM BRAYMER-STAR .	1100-0300
Louisville (SDF)	(RNAV only) TERPZ DP LDN J134 COLNS J6 HVQ J6 UNCKL DARBY-STAR	
	or LDN J134 COLNS J6 HVQ J 6 UNCKL	
	DARBY-STAR	
Memphis (MEM)	(RNAV only) TERPZ-DP LDN J134 COLNS J6 HVQ J6 BWG LTOWN (RNAV)-STAR	1100-0300
	LDN J134 COLNS J6 HVQ J6 BWG LTOWN	
	(RNAV)-STAR	1100-0300

		Effective Times
erminals Miami (MIA, TMB, HST)	Route (Turbojets-GPS or DME/DME-IRU equipped)	(UTC)
INITATIII (IVIIA, TIVID, 1131)	DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN HILEY (RNAV)-STAR	
	or	
	(Turboprops) V93 PXT V213 COLIN HCM J193	
	J121 CHS J79 OMN ANNEY-STAR or	
	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) DAILY J61 HUBBS KEMPR WETRO DIW AR22 JORAY HILEY (RNAV)—STAR	
	or	
	(Water-Turbojets) DAILY J61 HUBBS KEMPR	
	WETRO DIW AR22 JORAY OSOGY ENVOY YOSSI MILSY BOYUR HILEY KAINS	
	Or (Turb sists) DAILY ICA HURRS IAO2 HOM ICO	
	(Turbojets) DAILY J61 HUBBS J193 HCM ISO	
	J121 CHS J79 OMN ANNEY-STAR or	
	(Water-Turboprops-GPS or DME/DME-IRU	
	equipped) V93 PXT V213 COLIN HCM J193 CVI	
	DIW AR22 JORAY HILEY (RNAV)-STAR	
	(Water-Turboprops) V93 PXT V213 COLIN HCM	
	J193 CVI DIW AR22 JORAY OSOGY ENVOY	
	YOSSI MILSY BOYUR HILEY KAINS	
Nashville (BNA)	(RNAV only) TERPZ-DP LDN J134 COLNS J6 HVQ	
	J6 YOCKY GUITR-STAR	1100-0300
	LDN J134 COLNS J6 HVQ J6 YOCKY	
deview (EWD)	GUITR-STAR	1100-0300
Newark (EWR)	SWANN-DP V445 DQO DYLIN-STAR or	1100-0300
	(GPS or DME/DME IRU equipped) SWANN-DP	
	V445 DQO PHLBO (RNAV)–STAR	1100-0300
Orlando Executive (ORL)	(GPS or DME/DME-IRU equipped) DAILY J61	
	HUBBS KEMPR ILM AR15 HIBAC	4400 0400
Orlando Intl (MCO)	CWRLD(RNAV)-STAR	1100-0400
Orlando Intl (MCO)	(Water-Turbojets) DAILY J61 HUBBS KEMPR ILM AR15 HIBAC APOLO ORL	
	or (GPS or DME/DME-IRU equipped) DAILY J61	
	HUBBS J193 J121 CHS J79 OMN CWRLD (RNAV)-STAR	1100-0400
	or	1100 0400
	(GPS or DME/DME-IRU equipped) DAILY J61	
	HUBBS KEMPR ILM AR15 HIBAC CWRLD	
	(RNAV)-STAR	1100-0400
Phoenix Sky Harbor (PHX)	TERPZ(RNAV)-DP LDN J134 HNN J134 LBL J19	
	ZUN EAGUL (RNAV)-STARor	1100-0300
	LDN J134 HNN J134 LBL J19 ZUN BUNTR-STAR .	1100-0300
Providence (PVD)	SWANN-DP OOD J42 RBV HTO GREEN-STAR or	1100-0400
	(Turbojets, Non-Advanced Nav only) SWANN-DP	
	OOD J42 RBV HTO V268 MINNK	1100-0400
Savannah (SAV)	(Turbojets) DAILY J61 HUBBS J193 HCM FKN J79 CHS	
St. Louis (STL)	TERPZ (RNAV)-DP LDN J134 HNN J134 FLM PXV QBALL-STAR	1100-0300
	Or	4400 00
eterboro (TEB)	LDN J134 HNN J134 FLM PXV QBALL—STAR	1100-0300
	(Turbojets, Non-Advanced Nav Only) JERES J227 J49 J70 LVZ LVZ-STAR	1100-0300

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Terminals	Route	Times (UTC)
West Palm Beach (PBI)	(Turbojets-GPS or DME/DME-IRU equipped) DAILY J61 HUBBS J193 HCM ISO J121 CHS	,,,,,
	J79 OMN FRWAY (RNAV)-STAR or	1100-0300
	(Turbojets) DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN TUXXI-STAR	1100-0300
	(Water–Turbojets–GPS or DME/DME–IRU equipped) DAILY J61 HUBBS KEMPR WETRO	
	DIW AR19 AYBID FRWAY (RNAV)-STAR	
	(Water-Turbojets) DAILY J61 HUBBS KEMPR WETRO DIW AR19 AYBID MIMMI NEUBE	
White Plains (HPN)	SWOMP SANZZ CASKISWANN-DP OOD J150 CYN BOUNO-STARSWANN-DP ODD J42 RBV J222 JFK DPK-STAR	1100-0300 1100-0300
From WASHINGTON DULLES (IAD) only		1100 0000
Albany (ALB)	SWANN V268 BROSS J42 RBV LGA LGA055 V487	1100 0400
Boca Raton (BCT)	CANAN V130 (Turbojets-GPS or DME/DME-IRU equipped) DAILY J61 HUBBS J193 HCM ISO J121 CHS	1100-0400
	J79 OMN CAYSL (RNAV)-STARor	
	(Turbojets) DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN TUXXI-STAR	
	(Water-Turbojets GPS or DME/DME-IRU	
	equipped) DAILY J61 HUBBS KEMPR WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR or	
	(Water-Turbojets) DAILY J61 HUBBS KEMPR WETRO DIW AR19 AYBID MIMMI NEUBE	
Bridgeport (BDR)	SWOMP SANZZ CAYSL AML091 PALEO V44 SIE J121 MAD193 KEYED (Turbojets) DAILY J61 HUBBS J193 HCM FKN J79	1100-0400
Chicago (MDW)	CHSAML J149 FWA GOSHEN-STAR	1100-0400
Chicago (ORD)	AML J149 ROD WATSN (RNAV)-STARor	
Dallas/Fort Worth (DFW)	AML J149 FWA KNOX-STAR(RNAV only) BLUES LDN J134 COLNS J6 HVQ J6	
	LIT BONHAM-STARor	1100-0300
	LDN J134 COLNS J6 HVQ J6 LIT BONHAM-STAR	1100-0300
Dayton (DAY) Denver (DEN)	AML J149 HACKS APE DANEI-STAR(RNAV only) BLUES LDN J134 HNN J134 STL	1100-0300
	J110 GCK J154 RYLIE DANDD-STAR	1100-0300
	LDN J134 HNN J134 STL J110 GCK J154 RYLIE DANDD-STAR	1100-0300
Fort Lauderdale (FLL)	(Turbojets-GPS or DME/DME-IRU equipped) DAILY J61 HUBBS J193 HCM ISO J121 CHS	1100 0000
	J79 OMN FISEL (RNAV)-STAR or	
	(Turbojets) DAILY J61 HUBBS J193 J121 CHS J79 OMN GISSH-STAR	
	(Turboprops) DAILY J61 HUBBS J193 J121 CHS J79 VRB BLUFI-STAR or	
	5.	

erminals	Route (Water-Turboprops-GPS or DME/DME-IRU equipped) DAILY J61 EDDYS J174 ILM AR21	Times (UTC)
	CRANS FISEL (RNAV)-STARor (Water-Turboprops) DAILY J61 EDDYS J174 ILM	
	AR21 CRANS FATHR GISSH-STAR	
	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) DAILY J61 HUBBS KEMPR ILM AR21 CRANS FISEL (RNAV)-STAR	
	or (Water-Turbojets) DAILY J61 HUBBS KEMPR ILM	
Fort Myers (FMY, RSW)	AR21 CRANS FATHR GISSH-STAR(Turbojets-GPS or DME/DME-IRU equipped) HAFNR GVE J75 DUNKN SHFTY (RNAV)-STAR or	
	(WATER-Turbojets-GPS or DME/DME-IRU	
	equipped) DAILY J61 HUBBS KEMPR WETRO	
Hartford (HFD)	ILM AR15 HIBAC SHFTY (RNAV)-STAR SWANN V268 BROSS J42 RBV J222 JFK DPK	4400.0
Islip (ISP)	MAD V1 AML091 PALEO V44 SIE J121 SARDI CCC	1100-0 1100-0
Jacksonville (JAX)	(Turbojets) DAILY J61 HUBBS J193 HCM FKN	
Kansas City (MCI)	CHS SSI-STAR(RNAV only) BLUES LDN J134 HNN J134 STL	
	MCM BRAYMER-STAR	1100-0
Laujavilla (SDE)	LDN J134 HNN J134 STL MCM BRAYMER-STAR .	1100-0
Louisville (SDF)	(RNAV only) BLUES LDN J134 COLNS J6 HVQ J6 UNCKL DARBY-STAR	1100-0
	or LDN J134 COLNS J6 HVQ J6 UNCKL	
Momphie (MEM)	DARBY-STAR(RNAV only) BLUES LDN J134 COLNS J6 HVO J6	1100-0
Memphis (MEM)	BWG LTOWN (RNAV)-STAR	1100-0
	LDN J134 COLNS J6 HVQ J6 BWG WLDER-STAR .	1100-0
Miami (MIA)	(Turbojets) DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN ANNEY-STAR	
	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) DAILY J61 HUBBS KEMPR WETRO DIW AR22 JORAY HILEY (RNAV)-STAR	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped)	
	DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN HILEY (RNAV)-STAR	
	(Turboprops) V93 PXT V213 COLIN HCM J193 J121 CHS J79 OMN ANNEY-STAR	
	(Water) DAILY J61 HUBBS KEMPR WETRO DIW AR22 JORAY OSOGY ENVOY YOSSI MILSY BOYUR HILEY KAINS	
Nashville (BNA)	(RNAV only) BLUES LDN J134 COLNS J6 HVQ J6 YOCKY GUITR-STAR	1100-0
	or LDN J134 COLNS J6 HVQ J6 YOCKY GUITR-STAR	1100-0
Newark (EWR)	(GPS or DME/DME-IRU equipped) AML SWANN V445 DQO PHLBO (RNAV)-STAR	1100-0
Orlando Executive (ORL)	(GPS or DME/DME-IRU equipped) DAILY J61 HUBBS KEMPR ILM AR15 HIBAC CWRLD	1100-0
	(RNAV)-STAR	1100-0

Tomicale	Posts	Effective Times
Terminals Orlando Intl (MCO)	Route (Water-Turbojets) DAILY J61 HUBBS KEMPR ILM AR15 HIBAC APOLO ORL	(UTC)
	(GPS or DME/DME-IRU equipped) DAILY J61 HUBBS J193 J121 CHS J79 OMN CWRLD (RNAV)-STAR	1100-0400
	or (GPS or DME/DME-IRU equipped) DAILY J61 HUBBS KEMPR ILM AR15 HIBAC CWRLD	
Phoenix (PHX)	(RNAV)-STAR(RNAV only) BLUES LDN J134 HNN J134 LBL J19	1100-0400
	ZUN EAGUL(RNAV)-STARor	1100-0300
Providence (PVD)	LDN J134 HNN J134 LBL J19 ZUN BUNTR-STAR . SWANN V268 BROSS J42 RBV HTO GREEN-STAR	1100-0300
	or	1100-0400
Savannah (SAV)	(Turbojets, Non-Advanced Navigation) SWANN V268 BROSS J42 RBV HTO V268 MINNK (Turbojets) DAILY J61 HUBBS J193 HCM FKN J79	1100-0400
St. Louis (STL)	CHS	1100-0300
Teterboro (TEB)	LDN J134 HNN J134 FLM PXV QBALL-STAR (Turbojets, Non-Advanced Nav Only) JERES J227	1100-0300
West Palm Beach (PBI)	J49 J70 LVZ LVZ-STAR(Turbojets-GPS or DME/DME-IRU equipped) DAILY J61 HUBBS KEMPR WETRO DIW AR19 AYBID FRWAY (RNAV)-STAR	1100-0300
	or (Turbojets) DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN TUXXI-STAR	
	(Turbojets-GPS or DME/DME-IRU equipped) DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN FRWAY (RNAV)-STAR	
	(Water-Turbojets) DAILY J61 HUBBS KEMPR WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CASKI	
White Plains (HPN)	SWANN V268 BROSS J150 CYN BOUNO-STAR	1100-0400
From WASHINGTON NATL (DCA) only Albany (ALB)	SWANN V268 BROSS J42 RBV LGA LGA055 V487	1100-0400
Boca Raton (BCT)	CANAN V130 (Turbojets-GPS or DME/DME-IRU equipped) DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN CAYSL (RNAV)-STAR	1100-0400
	(Turbojets) DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN TUXXI-STAR or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) DAILY J61 HUBBS KEMPR WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR	
	or (Water-Turbojets) DAILY J61 HUBBS KEMPR WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL	
Boston (BOS)	(Turboprops) PALEO-DP SIE J121 HTO V308 ORW V16 W00NS	
Bridgeport (BDR) Charleston (CHS)	PALEO V44 SIE J121 MAD193 KEYED(Turbojets) DAILY J161 HUBBS J193 HCM FKN	1100-0400
Chicago (MDW)	J79 CHS AML J149 FWA GOSHEN-STAR	

Effective Times (UTC)

erminals	Route	(UTC)
Chicago (ORD)	AML J149 ROD WATSN (RNAV)-STAR or	
Dallas/Fort Worth (DFW)	AML J149 FWA KNOX-STAR LDN J134 COLNS J6 HVQ J6 LIT	
	BONHAM-STAR	1100-0300
Dayton (DAY)	AML J149 HACKS APE DANEI-STAR	1100-0400
Denver (DEN)	LDN J134 HNN J134 STL J110 GCK J154 RYLIE	4400 000
Fort Loudondolo (FLL)	DANDD-STAR	1100-0300
Fort Lauderdale (FLL)	(Turbojets-GPS or DME/DME-IRU equipped) DAILY J61 HUBBS J193 HCM ISO J121 CHS	
	J79 OMN FISEL (RNAV)-STAR	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) DAILY J61 HUBBS KEMPR ILM AR21	
	CRANS FISEL (RNAV)-STAR	
	or	
	(Turbojets) DAILY J61 HUBBS J193 HCM ISO	
	J121 CHS J79 OMN GISSH-STAR	
	or	
	(Water-Turbojets) DAILY J61 HUBBS KEMPR ILM	
	AR21 CRANS HILL FATHR GISSH-STAR	
	Or (Water-Turboprops-GPS or DMF/DMF-IRII	
	(Water-Turboprops-GPS or DME/DME-IRU equipped) DAILY J61 EDDYS J174 ILM AR21	
	CRANS FISEL (RNAV)-STAR	
	or	
	(Turboprops) DAILY J61 HUBBS J193 J121 CHS	
	J79 OMN MLB BLUFI-STAR	
	or	
	(Water-Turboprops) DAILY J61 EDDYS J174 ILM	
5	AR21 CRANS HILL FATHR GISSH-STAR	
Fort Myers (FMY, RSW)	(Turbojets–GPS or DME/DME–IRU equipped)	
	HAFNR GVE J75 DUNKN SHFTY (RNAV)-STAR	
	or (WATER-Turbojets-GPS or DME/DME-IRU	
	equipped) DAILY J61 HUBBS KEMPR WETRO	
	ILM AR15 HIBAC SHFTY (RNAV)-STAR	
Hartford (HFD)	SWANN V268 BROSS J42 RBV J222 JFK DPK	
	MAD V1	1100-040
Islip (ISP)	PALEO V44 SIE J121 SARDI CCC	1100-040
Jacksonville (JAX)	(Turbojets) DAILY J61 HUBBS J193 HCM FKN J79	
	CHS SSI-STAR	
Kansas City (MCI)	LDN J134 HNN J134 STL MCM	4400 055
Lauisvilla (SDE)	BRAYMER-STAR	1100-030
Louisville (SDF)	LDN J134 COLNS J6 HVQ J6 UNCKL DARBY-STAR	1100-030
Memphis (MEM)	LDN J134 COLNS J6 HVQ J6 BWG	1100-0300
	WLDER-STAR	1100-030
Miami (MIA, TMB, HST)	(Turbojets-GPS or DME/DME-IRU equipped)	
	DAILY J61 HUBBS J193 HCM ISO J121 CHS	
	J79 OMN HILEY (RNAV)-STAR	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) DAILY J61 HUBBS KEMPR WETRO	
	DIW AR22 JORAY HILEY (RNAV)-STAR	
	Or (Turboioto) DAILY IGA HURRS 1403 HCM ISO	
	(Turbojets) DAILY J61 HUBBS J193 HCM ISO	
	J121 CHS J79 OMN ANNEY-STAR	
	(Water-Turbojets) DAILY J61 HUBBS KEMPR	
	WEIRO DIW ARZZ JORAT OSOGT ENVOT TOSSI	
	WETRO DIW AR22 JORAY OSOGY ENVOY YOSSI MILSY BOYUR HILEY KAINS	

PREFERRED IFR ROUTES **Effective** Times Terminals (UTC) Route LDN J134 COLNS J6 HVQ J6 YOCKY Nashville (BNA) GUITR-STAR 1100-0300 Newark (EWR)..... (GPS or DME/DME-IRU equipped) SWANN V445 DQO PHLBO (RNAV)-STAR 1100-0400 Orlando Executive (ORL)..... (GPS or DME/DME-IRU equipped) DAILY J61 HUBBS KEMPR ILM AR15 HIBAC CWRLD (RNAV)-STAR 1100-0400

٥r

or

or

(Water-Turboiets) DAILY J61 HUBBS KEMPR ILM AR15 HIBAC APOLO ORL

(GPS or DME/DME-IRU equipped) DAILY J61 HUBBS J193 J121 CHS J79 OMN CWRLD (RNAV)-STAR.....

Phoenix (PHX) Providence (PVD)

Orlando Intl (MCO)

Savannah (SAV) St. Louis (STL) Teterboro (TEB).....

West Palm Beach (PBI)

White Plains (HPN) WILKES-BARRE/SCRANTON (AVP) Cincinnati (CVG).....

WINDSOR LOCKS (BDL) Atlanta (ATL)

Baltimore (BWI) Boca Raton (BCT).....

(Turbojets GPS or DME/DME-IRU equipped)

or PWL CMK J75 MXE V378 BAL

or

or

NE. 23 SEP 2010 to 18 NOV 2010

(all others) LVZ SEG PSB PSB281 MAULL SLT249 KODIE CTW081 CTW CINCE-STAR PWL SAX J77 PTW J48 ODF WHINZ-STAR (RNAV only) PWL SAX J77 PTW J48 ODF FLCON (RNAV)-STAR.....

COASTAL (HI)-DP GEDIC J174 ORF ISO J121 CHS J79 OMN CAYSL (RNAV)-STAR (Turboiets) COASTAL (HI)-DP GEDIC J174 ORF ISO J121 CHS J79 OMN TUXXI-STAR.....

(Water-Turboiets-GPS or DME/DME-IRU equipped) COASTAL (HI)-DP GEDIC J174 SWL CEBEE WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR.....

J79 OMN FRWAY (RNAV)-STAR

(Water-Turboiets-GPS or DME/DME IRU equipped) DAILY J61 HUBBS KEMPR WETRO

SWANN V268 BROSS J150 CYN BOUNO-STAR (RNAV only) LVZ SEG PSB MAULL KODIE CTW TIGRR (RNAV)-STAR

DIW AR19 AYBID FRWAY (RNAV)-STAR..... (Turbojets) DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN TUXXI-STAR..... (Water-Turbojets) DAILY J61 HUBBS KEMPR WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CASKI.....

(Turboiets, Non-Advanced Navigation) SWANN V268 BROSS J42 RBV HTO V268 MINK (Turbojets) DAILY J61 HUBBS J193 HCM FKN J79 CHS LDN J134 HNN J134 FLM PXV OBALL-STAR (Turboiets, Non-Advanced Nav Only) JERES J227 J49 J70 LVZ LVZ-STAR (Turbojets-GPS or DME/DME-IRU equipped) DAILY J61 HUBBS J193 HCM ISO J121 CHS

(GPS or DME/DME-IRU equipped) DAILY J61 HUBBS KEMPR ILM AR15 HIBAC CWRLD (RNAV)-STAR..... LDN J134 HNN J134 LBL J19 ZUN BUNTR-STAR . SWANN V268 BROSS J42 RBV HTO GREEN-STAR.

1100-0400 1100-0400

1100-0300 1100-0400 1100-0400 1100-0300 1100-0300

44

1100-0400

1100-0300

		Effective
Terminals	Route	Times (UTC)
	(Water-Turbojets) COASTAL (HI)-DP GEDIC J174 SWL CEBEE WETRO DIW AR19 AYBID MIMMI	
Chicago O'Hare (ORD)	NEUBE SWOMP SANZZ CAYSL CTR CAM SYR J63 EHMAN YXU J547 FNT PAITN-STAR	1100-030
Cincinnati (CVG)	CTR HNK J49 PSB PSB281 MAULL SLT249 KODIE CTW081 CTW CINCE-STAR	1100-000
Dallas/Ft Worth (DFW)	PWL SAX J6 LIT BYP CTR CAM J547 BUF BUF267 YQ0094 QU0	1100-030
Detroit Satellites:	SPICA-STAR	1100-030
Ann Arbor (ARB), Coleman A Young Muni (DET), Pontiac (PTK), Windsor		
(CYQG), Willow Run (YIP)	SYR J547 YXU GOHMA-STARor	1100-030
	SYR J547 YXU SWWAN-STAR	1100-030
	SYR J547 YXU PICES-STAR or	
Fort Lauderdale (FLL, FXE, OPF)	CTR CAM J547 BUF YQO(Water–Turbojets) COASTAL (HI)–DEP GEDIC J174 SWL CEBEE WETRO ILM AR21 CRANS HIILL	1100-03
	FATHR GISSH-STARor	1100-03
	(Water-Turboprops) COASTAL (HI)-DP GEDIC J174 ILM AR21 CRANS HILL FATHR	
	GISSH-STARor	1100-03
	(Turbojets) COASTAL (HI)-DP GEDIC J174 ORF ISO J121 CHS J79 OMN GISSH-STAR	1100-03
	or (Turboprops) COASTAL (HI)-DP GEDIC J174 ORF J121 CHS J79 OMN MLB BLUFI-STAR	1100-03
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) COASTAL (HI)-DP GEDIC J174 SWL	
	CEBEE WETRO ILM AR21 CRANS FISEL (RNAV)-STARor	1100-03
	(Water-Turboprops-GPS or DME/DME-IRU equipped) COASTAL (HI)-DP GEDIC J174 ILM	
	AR21 CRANS FISEL (RNAV)-STAR	1100-03
	(Turbojets-GPS or DME/DME-IRU equipped) COASTAL (HI)-DP GEDIC J174 ORF ISO J121	
Fort Myers (RSW)	CHS J79 OMN FISEL (RNAV)-STAR (WATER-Turbojets) COASTAL (HI)-DP GEDIC J174 SWL CEBEE WETRO ILM AR15 HIBAC SHFTY	1100-03
Miami (MIA, TMB, HST)	(RNAV)-STAR (Turbojets-GPS or DME/DME equipped) COASTAL (HI)-DP GEDIC J174 ORF ISO J121 CHS J79 OMN HILEY (RNAV)-STAR	
	or (Turbojets) COASTAL (HI)-DP GEDIC J174 ORF ISO J121 CHS J79 OMN ANNEY-STAR	
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) COASTAL (HI)-DP GEDIC J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAV)-STAR	
	(Water-Turbojets) COASTAL (HI)-DP GEDIC J174 SWL CEBEE WETRO DIW AR22 JORAY OSOGY ENVOY YOSSI MILSY BOYUR HILEY KAINS or	
	(Turboprops) COASTAL (HI)-DP GEDIC J174 ORF J121 CHS J79 OMN ANNEY-STAR	

Effective Times

Terminals	Davida	Times
	Route CTR CAM SYR J547 BUF YWT J63 TVC J522 GRB	(UTC)
Minneapolis/St Paul (MSP)		1100 0200
Orlanda Francio (ODL)	EAU-STAR	1100-0300
Orlando Exec (ORL)	COASTAL (HI)-DP GEDIC J174 ORF J121 CHS J79	1100 0200
	OMN BITHO-STAR	1100-0300
	(GPS or DME/DME-IRU equipped) COASTAL	
	(HI)-DP GEDIC J174 SWL CEBEE WETRO ILM	4400 0400
Orlanda Intl (MOO)	AR15 HIBACK CWRLD (RNAV)-STAR	1100-0400
Orlando Intl (MCO)	COASTAL (HI)-DP GEDIC J174 ORF J121 CHS J79	1100 0200
	OMN BITHO-STARor	1100-0300
	(Water-Turbojets) COASTAL (HI)-DP GEDIC J174	
	SWL CEBEE WETRO ILM AR15 HIBAC APOLO	
	ORL	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) COASTAL	
	(HI)-DP GEDIC J174 ORF J121 CHS J79 OMN	
	CWRLD (RNAV)-STAR	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) COASTAL	
	(HI)-DP GEDIC J174 SWL CEBEE WETRO ILM	
	AR15 HIBAC CWRLD (RNAV)-STAR	1100-0400
Philadelphia (PHL)	COASTAL-DP SHERL J121 BRIGS VCN-STAR	1100-0300
Pittsburgh (PIT)	CTR HNK HNK271 J190 SLT GRACE-STAR	1100-0300
Raleigh-Durham (RDU)	PWL CMK J75 GVE SBV	1100-0300
St. Louis (STL)	PWL SAX J80 VHP VLA-STAR	1100-0300
Tampa (TPA)	PWL CMK J75 TAY LZARD-STAR	1100-0300
Washington Dulles (IAD)	PWL SAX J6 LRP DELRO-STAR	1100-0300
Washington Natl (DCA)	COASTAL-DP GEDIC J174 ATRO85 ATR V308	
	BILITor	1100-0300
	(GPS or DME/DME-IRU equipped) COASTAL	
	(HI)-DP GEDIC J174 ATRO85 ATR V308 LAFLN	
	BILIT (RNAV)-STAR	
West Palm Beach (PBI)	(Turbojets-GPS or DME/DME-IRU equipped)	
West Fulli Bedon (FBI)	COASTAL (HI)-DP GEDIC J174 ORF ISO J121	
	CHS J79 OMN FRWAY (RNAV)-STAR	1100-0300
	or	1100 0000
	(Water-Turbojets) COASTAL (HI)-DP GEDIC J174	
	SWL CEBEE WETRO DIW AR19 AYBID MIMMI	
	NEUBE SWOMP SANZZ CASKI	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) COASTAL (HI)-DP GEDIC J174 SWL	
	CEBEE WETRO DIW AR19 AYBID FRWAY	
	(RNAV)-STAR	
	Or (Turboicto) COASTAL (HI) DD CEDIC 1474 ODE	
	(Turbojets) COASTAL (HI)-DP GEDIC J174 ORF ISO J121 CHS J79 OMN TUXXI-STAR	1100-0300
	130 JIZI CHO JIB UIWI TUAAI-STAK	1100-0200

444 PREFERRED IFR ROUTES

Traffic overflying Atlanta Center Eastbound originating South of a line from DFW to JFK:

Terminals

Traffic originating South of Wilmington, NC:
ILM J109 FAK DYLIN-STAR

SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

Route

Effective Times

1300-0100

1300-0100

(UTC)

GRD J209 RDU J207 FKN J79 JFK DPK DPK-STAR BOS (Jet only) GRD J209 RDU J207 FKN J79 JFK ORW-STAR or (Prop only) SIE J121 HTO V308 ORW V16 WOONS..... BWI SPA J14 RIC OTT-STAR or (GPS or DME/DME-IRU equipped) SPA J14 RIC RAVNN (RNAV)STAR..... SPA J14 RIC IRONS-STAR DCA or (GPS or DME/DME-IRU equipped) SPA J14 RIC OJAAY (RNAV)-STAR GRD J209 ORF J121 SIE CAMRN-STAR JFK AHN J208 HPW J191 PXT KORRY-STAR LGA SPA J14 J51 FAK DPNT-STAR PHL Traffic originating East of Chicago Terminating Denver: J60 IOW DSM J144 OBH J10 LBF DJB SAYGE-STAR BAE J16 MCW ONL J114 SNY LANDR-STAR STL J110 GCK J154 RYLIE DANDD-STAR STL Traffic overflying Cleveland Center and South of SLT: HPN (Above 250 kts) SLT J190 CFB DNY280 DNY VALRE-STAR or PSB J49 CFB220 CFB DNY280 DNY VALRE-STAR (250 kts or less) SLT J190 CFB DNY280 DNY NOBBI-STAR PSB J49 CFB220 CFB DNY280 DNY

NOBBI-STAR

1100-0300

erminals	Route	Effective Times (UTC)
JFK	ORF J121 SIE CAMRN-STAR	1100-0300
LGA	ILM TYI HPW J191 PXT KORRY-STAR	1100-0300
raffic overflying Indianapolis Center area Eastbo		
30S	ROD J29 J82 ALB GDM GDM-STAR	1100-0300
FK	ROD J29 J70 LVZ LENDY-STAR	1100-0300
GA	ROD J29 J146 MIP-STAR	1100-0300
	or	
	BKW J42 GVE KORRY-STAR	1100-0300
PHL	ROD J152 HAR V210 BUNTS	1100-0300
	or	1100 0000
	BKW J42 GVE DPNT-STAR	1100-0300
'IT	APE CTW V443 WISKE	
	or	
	HNN JPU V117 WISKE	
EB/MMU/CDW SATELLITES	(Non-Advanced Nav Aircraft only) ROD J29	
EB/WWO/ODW SATELLITES		
raffic overflying Indianapolis Contor area Footbo	JHW J70 LVZ LVZ–STARund originating North and West of a line from DFW	to IEK:
		I IU JFN.
BE	RID CXR H146	
CY	ROD J152 HAR LRP DQO ENO SIE	
DL	ROD J29 JHW J82 WILET RKA SWEDE-STAR .	
3WI	ROD J152 J162 MGW EMI-STAR	
CEF	ROD J29 JHW J82 ALB	
RG	ROD J29 JHW J82 J522 HNK IGN V58 V91	
	CCC	
IPN	(Above 250 kts) ROD J29 JHW J82 WILET	
	DNY VALRE-STAR	
	or	
250 kts or less) ROD J29 JHW J82 WILET DNY		
NOBBI-STAR		
SP	(Above 250 kts) ROD J152 J178 PSB J49	
	HNK J68 V130 TOMES MAD V34 CREAM V16	
	CCC	
	or	
	(250 kts or less) ROD J152 J78 PSB J49	
TED (MMILI (ODWI /LDL)	HNK DNY LOVES-STAR	
EB/MMU/CDW/LDJ	ROD J29 JHW J70 LVZ-STAR	1 4 a 1 E 1 / .
	und originating South and East of a line from DFW	to JFN:
ABE	BKW LDN LDN031 V377 HAR V162 DUMMR.	
ACY	BKW J42 OTT SIE	
3WI	BKW J147 CSN OTT-STAR	
	or	
	(GPS or DME/DME-IRU equipped) BKW J147	
	CSN RAVNN (RNAV)-STAR	
DAA	BKW J213 V143 V4 AML	
	or	
	BKW ELDEE (RNAV)-STAR	
00V	BKW J42 GVE ENO-STAR	
IPN	BKW J42 OOD J150 CYN BOUNO-STAR	
AD	BKW ROYIL-STAR	1100-1830
		and 2230-0300
	or	
	BKW SHNON (RNAV)-STAR	1100-1830
	=: 3	and 2230-0300
	or	3.10 ZZGG 0000
	GSO J14 CREWE J51 FAK COATT-STAR	1830-2230
	or	1000-2200
	GSO J14 CREWE J51 FAK BARIN	4000 0000
5	(RNAV)-STAR	1830–2230
FI	BKW J42 MOL J24 HCM	
ISF	BKW J213 FINKS AML259 AML	
PHL	BKW J42 GVE DPNT-STAR	
EB/MMU/CDW/LDJ	(Advanced-Nav Aircraft only) BKW J42 GVE	
	JAIKE-STAR	
	BKW J42 OTT SIE-STAR	
VRI	BRW 342 011 31E-31AR	

446 PRE	PREFERRED IFR ROUTES		
Terminals	Route	Effective Times (UTC)	
Traffic according Indiananalia (7ID) as Clausiand Co			
Traffic overflying Indianapolis (ZID) or Cleveland Ce BWI	MGW EMI-STAR	1100–0300	
	or BKW J147 CSN OTT-STAR or	1100-0300	
	(GPS or DME/DME-IRU equipped) BKW J147	4400 0200	
DCA	CSN RAVNN (RNAV)-STAR APE J30 BUCKO BUCKO-STAR or	1100-0300 1100-0300	
	BKW FINKS-STAR	1100-0300	
	(GPS or DME/DME-IRU equipped) APE J30 BUCKO ELDEE (RNAV)-STARor	1100-0300	
	(GPS or DME/DME-IRU equipped) BKW ELDEE (RNAV)-STARAPE J30 SHAAR WZRRD-STAR or	1100-0300	
	or APE J30 SHAAR ELDEE		
	or BKW ELDEE (RNAV)-STAR or		
IAD	APE AIR MGW MGW121 VERNI ESL ROYIL-STAR		
	or BKW ROYIL-STAR		
	or HVQ ROYIL-STAR		
	or (GPS or DME/DME-IRU equipped) APE AIR MGW VERNI ESL SHNON (RNAV)-STAR		
	BKW SHNON (RNAV)-STAR		
Traffic overflying Elwood City VORTAC (EWC) Northb	HVQ SHNON (RNAV)-STAR		
ROC	EWC EWC050130 GEE		
BUF EWC EWC050130	EWC DKK DKK020 WELLA		
Traffic entering ZBW originating South and West of			
J16	J16 ALB ENE V167 LFV	1100-0300 1100-0300	
J190	J190 ALB ENE V167 LFV	1100-0300	
Traffic entering ZBW via RBV or JFK landing HYA:	J62 MVY241 MVY		
	Or FLADE MADY	1100 0200	
JFK	FLAPE MVY	1100-0300	
	or FLAPE MVY	1100-0300	
Traffic entering ZBW via RBV or JFK landing MVY:			
RBV	LIBBE FLAPE MVY	1100-0300	
JI IV	or		
Traffic entering ZBW via RBV or JFK landing ACK:	LIBBE FLAPE MVY	1100-0300	
RBV	J62 ACK		
	or FLAPE CLAMY ACK or	1100-0300	
NE. 23 SEP	2010 to 18 NOV 2010		

Effective Times

(UTC)

Terrilliais		Route		(010)
		J79 J62 ACK		1100-0300
		FLAPE CLAMY ACK		1100-0300
Traffic entering ZBW via J174	or I121 landing UVA	RIFLE DEEPO (RNAV)-STAR		1100-0300
J121		J121 SHLEP J62 MVY241 I	MVY	
		or		
		J121 SHLEP LIBBE FLAPE N	MVY	1100-0300
J174		J174 RIFLE J62 MVY241 M	IVY	
		or		
Traffic entering ZBW via J174	or I121 landing MVY	J174 RIFLE FLAPE MVY		1100-0300
J121		J121 SHLEP J62 MVY241 I	MVY	
		or		
		J121 SHLEP LIBBE FLAPE N	//VY	1100-0300
J174		J174 RIFLE J62 MVY241 M	IVY	
		or		
Traffic antoning ZDW 14.74	Id Od I di d AOI/.	J174 RIFLE LIBBE FLAPE M	VY	1100-0300
Traffic entering ZBW via J174 J121		J121 SHLEP J62 ACK		
J121		Or Or		
		J121 SHLEP FLAPE CLAMY		1100-0300
J174		J174 RIFLE J62 ACK		1100 0000
31.		or		
		J174 RIFLE FLAPE CLAMY .		1100-0300
		or		
		J174 RIFLE DEEPO (RNAV)-	-STAR	1100-0300
1	HIGH ALTITUDE	SINGLE DIRECTION	N ROUTES	
				Effective
			Direction	Times
Airway	Segi	ment Fixes	Effective	(UTC)
J6	Lancaster, PA to Lit	tle Rock, AR	Southwest	1100-0300
J8		Casanova, VA	East	1100-0300
J14		Richmond, VA	Northeast	1100-0300
J22		ulaski, VA	Southwest	1100-0300
J30		it., VA	East	1100-0300
J34		Y Int., VA	East	1100-0300
J37		nburg, SC	Southwest	1100-0300
J40		Richmond, VA	North	1100-0300
J42		obbinsville, NJ	Northeast	1100-0300
J48	Pottstown, PA to Fo	othills, GA	Southwest	1100-0300

Columbia, SC to Yardley, NJ

Columbia, SC to Richmond, VA

Florence, SC to HUBBS Int., VA

Philipsburg, PA to EDDYS Int., VA

Modena, PA to Greensboro, NC

Wilmington, NC to Buffalo, NY

Linden, VA to Henderson, WV

Beckley, WV to Casanova, VA

Armel, VA to Rosewood, OH

Gordonsville, VA to Hampton, NY

Bellaire, OH to Martinsburg, WV

Charleston, SC to Richmond, VA

Wilmington, NC to Robbinsville, NJ

HUBBS Int., VA to Wilmington, NC

Florence, SC to Franklin, VA

Athens, GA to Hopewell, VA

Greenwood, SC to Norfolk, VA

Westminster, MD to Johnstown, PA

Beckley, WV to Armel, VA

Baltimore, MD to Indian Head, PA

Northeast

Northeast

Northeast

South

Southwest

North

West

Northeast

West

East

East

North

North

South

Northeast

Northeast

Northeast

Northwest

Fast

Northwest

1100-0300

1100-0300

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1100-0300

1100-0300

1100-0300

Route

Terminals

J51

J52

J55

J61

J75

J109

J134

J147

J149

J150

J162

J165

J191

J193

J207

J208

J209

J211

J213

Q-ROUTES 448

O-ROUTES REGULATORY

01, 03, 05, 07, 09 and 011 are preferred single direction (Southbound) O routes; flight planning Northbound not authorized.

RNAV MEAs will only be published if above FL 180.

Segment

ELMAA-ERAVE

FRAVE-FASON

EASON-EBINY

EBINY-ENVIE

ENVIE-ETCHY

BOILE-HEDVI

HEDVI-HOBOL

HOBOL-ITUCO

FEPOT-FAMUK

FAMUK-FRFLY FRFI Y-FINER

FINER-FOWND

BOILE-HEDVI HEDVI-SCOLE

SCOLE-SPTFR

SPTFR-ZEBOL

ZEBOL-SKTTR

SKTTR-EL PASO

HAROB-HISKU

HISKU-HARPR HARPR-HOMEG

HOMEG-HUPTU

HUPTU-STIKM

JINMO-JOGEN JOGEN-JUNEJ

JUNEJ-JAGWA

JAGWA-AVENAL

SUMMA-SMIGE

SMIGE-SUNBE

SUNBE-REBRG

REBRG-DERBB

PAAGE-PAWLI

PAWLI-PITVE

PITVE-PUSHH

All segments

All segments

PLESS-NASHVILLE

CORONA-HONDS HONDS-UNNOS

UNNOS-FUSCO

GUSTI-OYSTY

OYSTY-ACMES

ACMES-CATLN

FUSCO-JUNCTION

JONEZ-RAZORBACK

PUSHH-LOS ANGELES

FOWND-POINT REYES

ITUCO-NEWMAN

ETCHY-POINT REYES

Route

Q1

Q2

Q3

Q4

Q5

Q7

Q9

Q11

013

Q15

Q19

Q20

021

Q22

Q routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note

limited to GNSS RNAV operations only. Those routes will have an enroute chart note "GNSS REQUIRED".

BTG, OLM, HOM, HUH, UBG

LIN. ECA. RBL. ENI. SAC. OAK

TFD, GBN, BLH, PXR, TUS, CIE, SSO EWM, TFD, PXR, CIE, SSO, TUS, TCS

OED, EUG, RBL, LMT, ENI, CVO, FJS

EED, BLH, BZA, GBN, TRM, IPL, TFD

EED, BLH, BZA, GBN, TRM, IPL, TFD

EED, IPL, BZA, GBN, TFD, PXR, BLH

LIN, ECA, PYE, RBL, SAC, ENI

and South Central A/FD volumes. Q routes listed in this AF/D volume have at least part of one of their leg segments within this volume's area of coverage.

GNSS and DME/DME/IRU RNAV operations are authorized along Q routes at FL 180 and above. GNSS and DME/DME/IRU

DME facilities that have been assessed for RNAV operations are listed below. O routes with no DME facilities listed are

CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT

OED, PYE, OAK, LIN, ECA, LMT, RBL, ENI, SAC, FJS

OLM, TOU, HOM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT

OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS

PXR, BLH, BZA, GBN, TFD, TUS, SSO, CIE, SVC, TCS

SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS

OLM, ONP, CVO, EUG, HOM, UBG, BTG, LTJ, DSD, HUH ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV

EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME

CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV

OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ

CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA

ENL, GQO, PXV, BNA, IIU, FAM, BWG, CSX

FST, ACH, INK, CME, SJT, TXO, TCC

BYP, EOS, TUL, TXK, ADM, RZC, OKM

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CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME

ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST

AEX, DAS, MCB, LLA, BTR, LCH, HRV, LFT, LEV

RQR, GCV, MCB, BTR, PCU, GPT, HRV, LEV, SJI SJI, MGM, MCB, BFM, GPT, GCV, HRV, CEW, MVC, PCU, MEI

OAK, ECA, PYE, LIN, SAC, ENI, RBL

EPH, MWH

OED, SEA

None; GNSS required

None: GNSS required

CNX, INK, CME, TXO, TCC

SWR

BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS

CVO, OED, EUG, LMT, RBL, ENI, ONP, FJS

BTG. OLM. HOM. HUH. LTJ. CVO. DSD. OED. UBG. ONP. EUG

HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR

HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR

CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA

IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED,

RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS

OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED,

EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV,

SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, PDZ, HEC, OCN, CZQ, AVE, RZS

LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG

EUG, FMG, SAC, IMB, LKV, OED, DSD, RBL, LMT, CVO, REO

FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ

that this section does not apply to Q routes in the Gulf of Mexico. Gulf of Mexico Q routes are explained in the Southeast

ELD, MEM, LIT, FAM, RZC

BWG, PXV, ENL, BNA, TTH

OKM, SGF, RZC, EOS, TUL EIC, LIT, ELD, OKM, TXK

ARG, LIT, FAM, SGF, MEM

SQS, LIT, TXK

MEM, ARG, LIT, JAN, ELD, SQS

MEM, PXV, BNA, BWG, ARG, ENL

FORT SMITH-RAZORBACK OKM, RZC, EOS, TUL

Q-ROUTES

GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI

ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK

ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA

GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG

AEX, LEV, MCB, LCH, RQR, HRV, BTR, GCV, MCB, PCU, SJI, LBY

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027

028

029

Q30

Q31

Route

023

024

MEEOW-WALNUT RIDGE WALNUT RIDGE-WLSUN MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH WLSUN-POCKET CITY WALNUT RIDGE-DEVAC LIT, JKS, GOO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG

Segment

ROUGE

IRURF-PAYTN

FORT SMITH-ZALDA GRAZN-PYRMD PYRMD-HAKAT HAKAT-ESTEE ESTEE-POCKET CITY HARES_MEMPHIS

LAKE CHARLES-BATON

BATON ROUGE-IRUBE

MEMPHIS-SIDAE SIDAE-POCKET CITY SIDON-VULCAN DHART-JODOX JODOX-MARVELL

PXV, TTH, BWG, ENL MARVELL-TIIDE TIIDE-POCKET CITY EL DORADO-GAGLE GAGLE-CRAMM

CRAMM-NASHVILLE NASHVILLE-SWAPP DHART-LITTLE ROCK

Q32 LITTLE ROCK-PROWL

SQS, LIT, ELD, MEM, ARG ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH BWG, PXV, ENL, TTH AEX. JAN. MEM. SOS. SWB. ELD. LIT. TXK JAN, SQS, MEM, ARG, VUZ, BNA, LIT BWG, MEM, VUZ, BNA, GQO BWG, IIU, PXV, VXV, BNA, GQO AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL LIT, SWB, TXK, BYP, EIC, ELD, SQS

Q33 Q34 TEXARKANA-MATIE MATIE-MEMPHIS LIT, ARG, MEM, ELD, SQS MEMPHIS-SWAPP BWG, ARG, MEM, MKL, SQS, PXV, BNA, GQO, IIU, VXV Q35 KIMBERLY-NEERO LTJ. PDT. DSD. IMB. LKV. BOI. REO. BAM. SDO BOU, SDO, BAM, REO, BVL, ILC, DTA, ELY, CDC, MLF, BCE NEERO-WINEN

WINEN-CORKR CDC, BCE, BLD, ILC, MLF, TBC, PGS, INW, DRK TBC, BCE, BLD, DRK, PGS, FLG, GCN, INW, TFD CORKR-DRAKE

RAZORBACK-TWITS RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT TWITS-DEPEC

036 DEPEC-NASHVILLE NASHVILLE-SWAPP Q38 ROKIT-INCIN

MEM. GOO. BNA. BWG. FAM. ARG. PXV. IIU GOO, BWG, BNA, PXV, IIU VXV, BWG, BNA, GQO, PXV, IIU DAS, LCH, SWB, IAH, LFK, HUB, AEX JAN, MCB, SWB, AEX INCIN-LAREY LAREY-BESOM JAN, JYU, MEI, SQS, VUZ ALEXANDRIA-DOOMS DOOMS-WINAP

WINAP-MISLE KIRKSVILLE-STRUK

Q40 Q42 STRUK-DANVILLE

AEX. SWB. LCH. JAN. HEZ. MCB JAN, SQS, MEI, MCB MEI, VUZ, JYU CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX DANVILLE-MUNCIE MUNCIE-HIDON

ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK, HIDON-BUBAA BUBAA-PSYKO

PSYKO-BRNAN

SUZIE-EAST TEXAS

EAST TEXAS-ELIOT

DEFUN-HEVVN

HEVVN-PLYER

PLYER-SWABE

ST PETERSBURG-**CYPRESS**

0104

BRNAN-MAALS MAALS-SUZIE ETG. EMI. CSN. HUO. SIE. JFK. PSB. SLT. HNK

AIR, HVQ, CXR, EWC

OBK, GIJ, FWA, GSH, IRK GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN, AIR, APE, HNN, CXR, HVQ, EWC, DJB

HUO, RBV, EMI, CYN, SAX, JFK, PSB, HNK

JFK, EMI, PSB, SLT, HNK, SIE, RBV, SAX, HUO, CYN

AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT EMI, SLT, CSN, EWC, PSB, ETG, SAX, RBV, HNK, HUO, SIE

PIE, PZD, CRG, SZW, TAY, JYU, CEW, MGM, OTK, CRG PIE, ORL, OMN, SRQ, TAY, LAL, CRG, SZW, PZD SWABE-ST PETERSBURG LAL, ORL, OMN, SRQ, PHK, PIE PHK, PBI, SRQ, PIE, VRB, ORL, FLL, LAL, OMN

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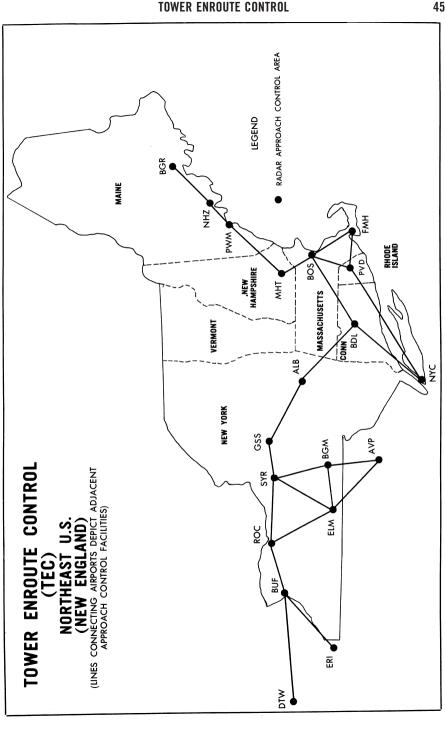
PIE, ORL, OMN, SRQ, TAY

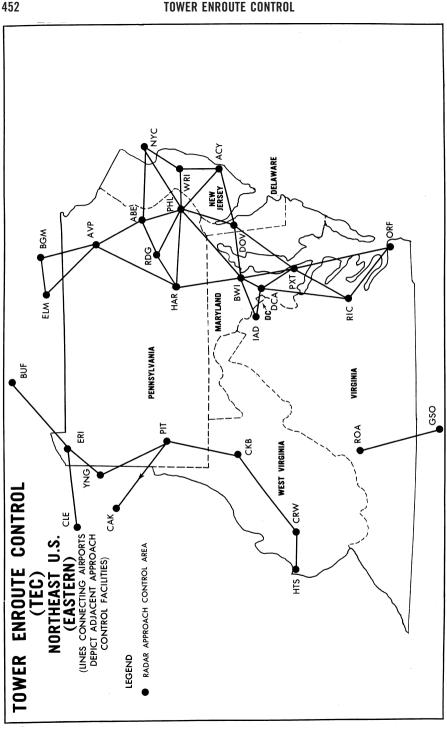
450		Q-ROUTES
Route	Segment	DME
Q106	SMELZ-BULZI	LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW
_	BULZI-DRABK	AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI
	DRABK-GADAY	MGM, PZD, OTK, JYU, SZW, CEW, SJI
Q108	GADAY-HKUNA	CEW, JYU, MGM, SZW, RRS, PZD, MAI, OTK, GEF, MGR, TAY, AMG, CRG
Q110	THNDR-JAYMC	SRQ, VRB, PHK, PIE, LAL, VKZ, ORL, PBI
_	JAYMC-RVERO	VKZ, VRB, PHK, PIE, LAL, SRQ, ORL, OMN, PBI, DHP
	BUIERO URAGA	ONNE DE DEL ODO ODE LA

Q110	THNDR-JAYMC	SRQ, VRB, PHK, PIE, LAL, VKZ, ORL, PBI
	JAYMC-RVERO	VKZ, VRB, PHK, PIE, LAL, SRQ, ORL, OMN, PBI, DHP
	RVERO-KPASA	OMN, PIE, PBI, SRQ, ORL, LAL
	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-GULFR	OMN, AMG, CRG, SZW, PIE, TAY, PZD, OTK
	GULFR-FEONA	TAY, MCN, PZD, CRG, OTK, SZW, AMG, MCN, ATL, MGM
Q112	DEFUN-HEVVN	PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB
	HEVVN-INPIN	JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG
Q116	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-GULFR	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK
	GULFR-CEEYA	MCN, AMG, PZD, OTK, SZW, TAY
Q118	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-LENIE	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK, MCN
Q501	VIXIS-GOPHER	ECK, FNT, APN, SSM, GRR, MBL, SAW, BAE, MNM, DLL, AUW, ODI, STE, FGT, EAU
		DLH, GEP, BRD, MCW, MSP, ASP, TVC, GRB, RWF

GOPHER-SOBME FGT, BRD, MCW, GEP, ABR, FAR, DLH, ODI, RWF, FSD Q502 KENPA-GOPHER SSM, FNT, ECK, APN, SAW, GRB, BAE, DLL, AUW, ODI, FGT, DLH, EAU, MCW, MSP, MNM, ASP, TVC, GEP, RWF, BRD GOPHER-SOBME FGT, DLH, ODI, MCW, ABR, FAR, MSP, GEP, RWF, FSD, BRD **Q504** NOTAP-CESNA SSM, ECK, APN, GLR, PLN, ISQ, MNM, DLL, RHI, DLH, GEP, FGT, ODI, ASP, TVC,

SAW, GRB, BRD CESNA-HEMDI ODI, GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, DLL, BRD Q505 OMAGA-RIMBE SSM, TVC, ASP, SAW, GRB RIMBE-CESNA SSM, RHI, DLL, DLH, GEP, FGT, TVC, SAW, GRB, BRD, ODI GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, BRD, ODI, GRB CESNA-HEMDI





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(TEC)

information from FSS's and to use the route descriptions provided in this directory when filing flight plans. Other airways which appear to be more direct between two points may take the aircraft out of approach control airspace thereby resulting in additional delays or other complications. All published TEC routes are designed to avoid enroute airspace and the majority are within radar coverage. Additional routes and other changes will appear in forthcoming editions as necessary. The acronym "TEC" should be included in the remarks section of the flight plan. This will advise ATC that the pilot intends to remain within approach control airspace for the entire flight. The following items should be noted before using the

1. The graphic is not to be used for navigation nor detailed flight planning. Not all city pairs are depicted. It is intended to show general geographic areas connected by tower enroute control. Pilots should refer to route descriptions for specific

2. The route description contains four columns of information: i.e., the approach control area (listed alphabetically) within which the departure airport is located (check appropriate flight information publications), the specific route (airway, radial, etc.), the highest altitude allowed for the route, and the destination airport (listed alphabetically). Be advised, many destination airports are associated with a larger primary airport. Check the legend preceding this listing for this

3. The word "DIRECT" will appear as the route when radar vectors will be used or no airway exists. Also, this indicates

4. When a NAVAID or intersection identifier appears with no airway immediately preceding or following the identifier, the

5. Routes beginning or ending with an airway indicate that the airway essentially overflies the airport or radar vectors

6. Where more than one route is listed to the same destination, the pilot may select which route is desired. Unless

7. Routes are effective only during each respective terminal facility's normal operating hours. Pilots are cautioned to

9. Altitudes are listed in thousands of feet. ATC may require altitude changes to maintain flight within approach control airspace. ATC will provide radar monitoring and, if necessary, course guidance if the highest altitude assigned by ATC is

TOWER ENROUTE CONTROL CITY PAIRS

that a Standard Instrument Departure (SID) or Standard Terminal Arrival Route (STAR) may be applied by ATC.

routing is understood to be DIRECT to or from that point unless otherwise cleared by ATC.

check NOTAMS to ensure appropriate terminal facilities will be operating for the planned flight time. 8. All identifiers used for NAVAIDS, airports, and intersections are official identifiers.

Within the national airspace system it is possible for a pilot to fly IFR from one point to another without leaving approach control airspace. This is referred to as "tower enroute" which allows flight beneath the enroute structure. The tower

enroute concept has been expanded (where practical) by reallocating airspace vertically/geographically to allow flight planning between city pairs while remaining within approach control airspace. Pilots are encouraged to solicit tower enroute

below the Minimum Enroute Altitude (MEA). 10. Although all airports are not listed under the destination column, IFR flight may be planned to satellite airports in proximity to major airports via the same routing.

otherwise stated, all routes may be flown in either direction.

11. Flight plans should be filed with a Flight Service Station (FSS).

graphics and route descriptions:

flight planning.

association.

will be applied.

(1) Single Engine only. (2) Props less than 210 KT IAS. (3) Props less than 250 KT IAS. (4) Jets and Props greater than 210 KT IAS.

Boston-NO SATS = BED/LWM/BVY/FIT/6B6/2B2 SO SATS = BOS/OWD/1B9/3B2Bradley = BDL/BAF/CEF/7B2

(5) Jets and Props greater than 250 KTS IAS.

Bradley/Hartford = HFD/MMK/IJD/4B8 Bradlev/Worcester = ORH/3B0/1B6

Manchester = MHT/ASH/CON/LCI Manchester/Pease = PSM/DAW/3B4 New York/Bridgeport = BDR/HVN/OXC/3B9

Philadelphia = NO SATS = OQN/MQS/LOM/DYL/PNE/CKZ/PTW/UKT/TTN/NXX

SO SATS = ILG/EVY

Portland = PWM/IWI/NHZ/RKD Portland/Augusta = AUG/LEW/WVL/IZG/81B

Providence = PVD/EWB/TAN/SFZ/UUU/5B3

Providence/Groton = GON/WST/BID/0B8

Approach Control Area

(Including Satellites)	Route	Altitude	Destination
Albany	 ALB GDM V431 LOBBY	10000	Bedford
	 V14 V428 V29	6000	Binghamton
	 ALB GDM V431 REVER	10000	Boston
	 Direct	10000	Bradley
	 V130	10000	Bradley
	 ALB V44 DENNA	10000	Bridgeport
	 V14	10000	Buffalo
	 (3) ALB V123 HAARP	10000	Danbury

Highest

454 TOWER ENROUTE CONTROL Approach Control Area Highest (Including Satellites) Route Altitude Destination (4) ALB V157 HAARP 10000 Danbury V14 V428 8000 Elmira 10000 V2 Griffiss ALB V130 BDL GON 10000 Groton Direct 10000 Hartford ALB CTR PVD V151 GAILS V14 V428 10000 Hyannis 8000 Ithaca ALB EEN MHT 10000 Manchester ALB CTR V405 PVD 10000 Marthas Vine ALB CTR PVD PVD PVD167 NEWBE DEEPO 10000 Nantucket ALB GDM V431 LOBBY 10000 Norwood ALB CAM CON 10000 Portland ALB CON 10000 Portsmouth ALB CTR PVD 10000 Providence ALB CTR PVD V151 GAILS 10000 Provincetown V2 10000 Rochester V14 BEEPS 10000 Rochester ALB V123 TRESA 10000 Stewart ALB V130 MOLDS 10000 Worcester Allentown FJC V149 LHY 8000 Albany ETX LHY 8000 Albany V149 MAZIE ARD CYN 5000 Atlantic City V93 LRP 8000 Baltimore ETX V162 DUMMR V93 LRP 6000 Baltimore 8000 Baltimore 10000 Bradley Direct 10000 Bradlev FJC STW 5000 Caldwell (2) ETX V30 SBJ 5000 Farmingdale ETX V162 HAR 8000 Harrisburg 10000 Direct Hartford ETX ETX004 WEISS 4000 Hazleton ETX V39 4000 Lancaster (2) ETX BWZ 5000 Newark (4) FJC BWZ 6000 Newark North Philade FJC V149 MAZIE ARD 5000 4000 Philadelphia (4) FJC V149 MAIZE (turbojet only) 7000 Philadelphia ETX V29 PTW (turboprop only) 5000 Philadelphia FJC V6 SEG 8000 Pittsburgh ETX V30 SEG Pittsburgh 8000 V276 RAV 8000 Pittsburgh FJC RAV 8000 Pittsburgh ETX V39 FLOAT 4000 Reading ETX V164 FOM 6000 Rochester FJC V162 HUO 5000 Westchester V93 LVZ 7000 Wilkes-Barre FJC V149 RITTY 7000 Wilkes-Barre ETX V29 PTW 4000 Wilmington V229 DIXIE V276 ARD Atlantic City 5000 Allentown 5000 Allentown 4000 Andrews AFB LEEAH V268 BAL 4000 Baltimore V1 JFK V229 HFD CLOWW (Single engine and 5000 Bangor /E, /F, /G only) 5000 V1 JFK V229 HFD CLOWW (Single engine and Bar Harbor /E, /F, /G only) V1 JFK V229 HFD HFD053 DREEM (Single 5000 Boston (Nort Engine only) V1 JFK V229 HFD V3 WOONS (Single Engine 5000 Boston only) V1 JFK V229 HFD FOSTY WOONS (Single engine 5000 Boston and /E, /F, /G only) V1 JFK V229 BDR BDR014 JUDDS (Single 5000 Bradley Engine only) V184 ZIGGI JFK 210 JFK V229 BDR (Twins 5000 Bridgeport only, n/a between 1400-2100) HOWIE V1 JFK V229 BDR (Single engine only) 5000 Bridgeport

...... V184 00D DQ0 V469 HAR NE. 23 SEP 2010 to 18 NOV 2010

4000

Capital City

TOWER ENROUTE CONTROL

pproach Control Area Including Satellites)

Burto	Highest	Dankin akin n
 Route LEEAH V268 ENO	Altitude 4000	Destination Dover
LEEAH V268 BAL BAL294 KROLL AML (No	4000	Dulles
jets)		
LEEAH V229 PXT V16 V286 CSN (Jets only) V268 ENO V29 AVP V147	4000 4000	Dulles Elmira
V1 JFK BDR MAD MAD126 MONDI (Single	5000	Groton
Engine only)		
V184 00D DQ0 V469	4000	Harrisburg
V1 JFK V229 (Single engine only)	5000	Hartford
 V1 JFK V229 HFD V167 PVD V151 GAILS (Single Engine only)	5000	Hyannis
 V1 JFK CCC (Single Engine only)	5000	Islip
V184 ZIGGI JFK210 JFK CCC (No Single	5000	Islip
Engine; n/a btn 1400-2100 local)	5000	
V1 JFK (Single Engine only) V184 ZIGGI JFK210 JFK (Jets/multiengine	5000 5000	Kennedy Kennedy
 Props only; no OTFC)	3000	Remicuy
 V1 DIXIE V276 RBV V123 NANCI (Single	5000	LaGuardia
Engine only)		
 V229 DIXIE V276 RBV V123 NANCI (No Single	5000	LaGuardia
Engine) V229 DIXIE V276 RBV V123 NANCI (Jets only)	7000	LaGuardia
V184 OOD DQO DQO319 LRP144 LRP	4000	Lancaster
 HOWIE V1 CYN	5000	McGuire AFB
VCN V16 CYN	7000	McGuire AFB
V229 PANZE (Helicopters only) SIE V44 PANZE	3000 5000	McGuire AFB McGuire AFB
SIE V139 HARBO	5000	McGuire AFB
V1 JFK V229 HFD CLOWW (Single engine and	5000	Manchester
/E, /F, /G only)		
V1 JFK V229 BDR MAD (Single Engine only) V1 JFK V229 BDR MAD V475 V188 GON	5000 5000	Meriden Markham
 V374 (Single engine only)	5000	Martha's Vineyard
 V1 JFK V229 BDR MAD V475 V188 GON	5000	Nantucket
V58 NEWBE DEEPO (Single Engine only)		
 V229 DIXIE V276 RBV RBV005 OWBIE	5000	Newark
(Non-jets only) V229 DIXIE V276 RBV V249 METRO	5000	Newark
V229 DIXIE V276 RBV RBV005 OWBIE (Jets	6000	Newark
only)		
 V1 JFK V229 BDR MAD V475 V188 GON	5000	New Bedford
V374 MINNK (Single Engine only)	5000	North Dhiladalahia
V229 DIXIE V276 ARD ACY V184 00D	5000 4000	North Philadelphia Philadelphia
V1 JFK V229 HFD CLOWW (Single engine and	5000	Portland
/E, /F, /G only)		
 V1 JFK V229 BDR MAD V475 V188 GON	5000	Providence
(Single Engine only) V1 JFK V229 HFD V167 PVD V151 GAILS	5000	Provincetown
 (Single Engine only)	3000	TTOVINCCTOWN
 V1 JFK V229 BDR MAD V475 V188 GON	5000	Quonset
(Single Engine only)		
V184 OOD DQO MXE MXE334 HUMEL	4000 6000	Reading
 SIE V139	4000	Salisbury Snow Hill
 V1 ATR	6000	Snow Hill
 V1 JFK V229 BDR MAD V475 V188 GON V374	5000	Taunton Muni
MINNK (Single Engine only)	4000	Totorboro
 V229 PANZE V184 ZIGGI V276 RBV V249 METRO (Turbojet only)	4000	Teterboro
 LEEAH V1 ATR V308 OTT (Props only)	4000	Washington
 V229 DIXIE V276 RBV V249 SAX V39 BREZY	5000	Westchester Co.
(Multi-engine Props only)	F000	Mantahartra
 V1 DIXIE V276 RBV V249 SAX V39 BREZY (Multi-engine props only)	5000	Westchester Co.
 V1 JFK V229 HFD V1 GRAYM (Single Engine	5000	Worcester
 only)		-

456	TOWER ENROUTE CONTROL		
Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination
Baltimore	V93 LRP V39 ETX	7000	Allentown
	V268 LEEAH V229 V268 ENO V16 JFK V229 HFD CLOWW (Single	7000 7000	Atlantic City Bangor
	 engine and /E, /F, /G only) V268 ENO V16 JFK V229 HFD CLOWW (Single	7000	Bar Harbor
	engine and /E, /F, /G only) V93 LRP V499	7000	Binghamton
	V268 ENO V16 JFK V229 HFD HFD053 DREEM (Single engine only)	7000	Boston (Nort
	V268 ENO V16 JFK V229 HFD V3 WOONS (Single Engine only)	7000	Boston
	V268 ENO V16 JFK V229 HFD FOSTY WOONS (Single engine and /E, /F, /G only)	7000	Boston
	V268 ENO V16 JFK V229 BDR BDR014 JUDDS (Single Engine only)	7000	Bradley
	V268 ENO V16 JFK V229 BDR (Single Engine only)	7000	Bridgeport
		7000	Capital City
	V268 ENO	7000	Dover AFB
	V44 MRB	6000	Dulles
	V268 ENO V16 JFK V229 BDR MAD MAD126 MONDI (Single Engine only)	7000	Groton
	EMI EMI321 HGR089 HGR	6000 7000	Hagerstown Harrisburg
	 V268 ENO V16 JFK	7000	Islip
	V268 ENO V16 JFK (Single Engine)	7000	Kennedy
	V214 DQO V479 RUUTH V123 NANCI	7000	LaGuardia
	V499 LRP	5000	Lancaster
	V214 DQO OOD V312 CYN GXU	5000	McGuire
	V268 ENO V16 JFK V229 HFD CLOWW (Single engine and /E, /F, /G only)	7000	Manchester
	 V268 ENO V16 JFK V229 BDR MAD V475 V188 GON V374 MVY (Single Engine only)	7000	Martha's Vin
	 V214 MRB	8000	Martinsburg
	 V268 ENO V16 JFK V229 BDR MAD V475 V188 GON V58 NEWBE DEEPO (Single Engine	7000	Nantucket
	 only) BAL V378 MXE ARD V214 METRO (-180	5000	Newark
SO SATS	kts only) V214 DQO	7000	New Castle
30 3A13	V93 PXT V16 V33 V286 STEIN	6000	Norfolk
	V419 MXE (Non turbojets only)	5000	N. Philadelph
	V378 MXE (Non turbojets only)	5000	N. Philadelph
NO SATS	V214 DQO (Turbojets only)	11000	N. Philadelph
		6000	Patuxent Rive
	V214 ODESA OOD (Non turbojets only)	7000	Philadelphia
	V214 DQO (Turbojets only)	9000	Philadelphia
	V268 ENO V16 JFK V229 HFD CLOWW (Single engine and /E, /F, /G only)	7000	Portland
	 V93 PXT V16	6000	Richmond
	BAL BAL133 SBY332 SBY	7000	Salisbury
	V268 ENO V16 JFK CCC (Single Engine)	7000	Suffolk
	BAL V378 MXE V3 SBJ TEB (-180 kts only)	7000	Teterboro
		4000	Washington
	V93 LRP V39 V162 FJC STW SAX V39 BREZY	7000	Westchester
	 V93 LRP ETX FJC BWZ SAX V39 BREZY V93 LVZ	7000 7000	Westchester Wilkes Barre
Bangor	ENE LWM	10000	Bedford
	(3) ENE PSM PSM221 STEVO LWM	10000	Boston
	(4) ENE V167 SCUPP	10000	Boston
	ENE V106 GDM V229 WITNY	10000	Bradley
	CLOWW WITNY (/E, /F, /G only)	10000	Bradley
	ENE V106 GDM V229 HFD	10000	Bridgeport
	CLOWW WITNY HFD (/E, /F, /G only)	10000	Bridgeport
	AUG V39 CON	10000	Concord
	(3) AUG V39 GDM V229 HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
	 (3) CLOWW WITNY HFD V1 MAD V475 BDR BDR288 RYMES (/E, /F, /G only)	10000	Danbury

Highest

Altitude

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Destination

Groton

Hartford

Hartford

Hyannis

Kennedy

Manchester

Nantucket

Marthas Vinevard

Newark & SATS

Newark & SATS

Newark & SATS

Newark & SATS

Norwood

Stewart

Providence

Provincetown

White Plains

Worcester

Allentown

N. Philadelphia

Philadelphia

Rochester

Syracuse

Ruffalo

Flmira

Ithaca

Islin

 ENE V139 TONNI	10000
 ENE V106 GDM V14 ORW V16 CCC	10000
 ENE V106 GDM V14 ORW V16 DPK	10000
 ENE MHT	10000
 ENE V139 TONNI	10000
 ENE V139 TONNI	10000
 (3) CLOWW WITNY HFD V3 CMK V623 SAX	10000

..... AUG V39 GDM V14 ORW GON

..... CLOWW WITNY HFD (/E,/F,/G only)

..... AUG V39 GDM V229 HFD

(/E, /F, /G only) (3) ENE V106 GDM V3 CMK V188 SAX (1) CLOWW WITNY HFD V229 V188 CMK V623 SAX (/E, /F, /G only) ENE LWM ENE V139 BURDY

..... ENE V139 TONNI AUG V39 CON V93 STUBY V205 TRESA

Route

Approach Control Area

(Including Satellites)

Binghamton

Boston

NO SATS

SO SATS

NO SATS

NO SATS

SO SATS

NO SATS

SO SATS

...... (3) CLOWW WITNY HFD V1 MAD V475 BDR V270

BDR288 RYMES (/E, /F,/G only) ENE V106 GDM V229 SPENO V29 LVZ V613 V252 GEE V14 V423 V29 LVZ V613 FJC ARD

..... V29 PTW V423 ITH

..... V29 V29 LVZ V226 MUGZY V29

..... GLYDE V270 CTR

............ (1) V419 V14 ORW V16 JFK V229 (1) V268 HTO CCC V16 V229 V419 V14 ORW V308 BRIGS V268 BRIGS PSM ENE (1) V419 V14 ORW V16 V44 V268 (1) V268 HTO CCC V16 V44 V268 V419 V14 ORW HTO V268 V268 PSM ENE BGR

..... PSM ENE BOSOX V419 WITNY BOSOX V1 HFD V268 SEY V34 CREAM

..... MHT V141 MHT CON

..... V268 ENO

..... GLYDE V270 GLYDE V270

..... PVD

..... MHT

..... BOSOX V1 HFD

..... DRUNK V141 GAILS

..... V268 HTO V46 CCC

...... V268 HTO V46 DPK

..... V419 V14 ORW V16 CCC

...... V419 V14 ORW V16 DPK

...... (3) BOSOX V1 MAD V475

...... V419 V14 ORW HTO V268 ENO

..... V270 CTR V146 V14 (3) BOSOX V1 MAD V475 BDR BDR288 RYMES (5) GLYDE BAF IGN V157 HAARP (1) V419 V14 ORW V16 ENO (1) V268 HTO CCC V16 ENO

NE. 23 SEP 2010 to 18 NOV 2010

10000 10000 10000 10000 Burlington Concord Danbury Danbury

Bangor Bradley Buffalo

Dover AFB

Dover AFB

Dover AFR

Dover AFB

Elmira

Groton

Hartford

Hyannis

Frie

Islip

Islip

Keene

Kennedy

Kennedy

LaGuardia

Atlantic City Augusta Baltimore Raltimore Baltimore Baltimore Bar Harbor Bridgeport Bridgeport

Teterboro Wilkes-Barre Albany Atlantic City Atlantic City Atlantic City

458 TOWER ENROUTE CONTROL

458		IUWER ENRUUIE GUNIRUL		
Approach Control Area (Including Satellites)		Route	Highest Altitude	Destination
			10000 10000	Lebanon Manchester
		MVY359035 MVY	10000	Martha's Vineyard
NO SATS		(1) V419 V14 ORW V16 CYN	10000	McGuire AFB
SO SATS		(1) V268 HTO CCC V16 CYN	10000	McGuire AFB
NO SATS		V419 V14 ORW V308 DRIFT V312 CYN	10000	McGuire AFB
SO SATS		V268 DRIFT V312 CYN	10000	McGuire AFB
		DRUNK V141	10000	Nantucket
		(1) BOSOX V1 HFD V229 SEALL V188 CMK V623 SAX	10000	Newark & SATS
NO SATS		(3) BOSOX V1 HFD V3 CMK V623 SAX BOSOX V1 HFD	10000 10000	Newark & SATS New Haven
SO SATS		V268 SEY V34 CREAM	10000	New Haven
NO SATS		(1) V419 V14 ORW V16 DIXIE V276 ARD	10000	N.E. Philadelphia
SO SATS		(1) V268 HTO CCC V16 DIXIE V276 ARD	10000	N.E. Philadelphia
NO SATS		V419 V14 ORW V308 MANTA V276 ARD	10000	N.E. Philadelphia
SO SATS		V268 MANTA V276 ARD	10000	N.E. Philadelphia
NO SATS		(1) V419 V14 ORW V16 VCN OOD	10000	Philadelphia
SO SATS		(1) V268 HTO CCC V16 VCN OOD	10000	Philadelphia
NO SATS		V419 V14 ORW V308 BRIGS ACY V184 OOD	10000	Philadelphia
SO SATS		V268 BRIGS ACY V184 OOD	10000	Philadelphia
		PSM ENE	10000 10000	Portland Portsmouth
			10000	Providence
			10000	Provincetown
NO SATS		(1) V419 V14 ORW V16	10000	Richmond
SO SATS		(1) V268 HTO CCC V16	10000	Richmond
NO SATS		V419 V14 ORW HTO V268 ENO V16	10000	Richmond
SO SATS		V268 ENO V16	10000	Richmond
		BOSOX V419 BDL V205 TRESA	10000	Stewart
		MHT V490 UCA	10000	Syracuse
NO SATS		(1) V419 V14 ORW V16 DIXIE V276 RBV	10000	Trenton
SO SATS		(1) V268 HTO CCC V16 DIXIE V276 RBV	10000 10000	Trenton
NO SATS SO SATS		V419 V14 ORW V308 MANTA V276 RBV V268 MANTA V276 RBV	10000	Trenton Trenton
30 3A13		(3) BOSOX V1 MAD V475 BDR BDR288 RYMES	10000	White Plains
NO SATS		V419 V14 ORW V16 CREAM HTO	10000	Westhampton Bch
NO SATS		V268 HTO	10000	Westhampton Bch
		Direct	10000	Worcester
Boston ARTCC/Keene		GDM V431 LOBBY	10000	Bedford
		V431 REVER	10000	Boston
			10000	Bradley
		GDM V229 HFD	10000	Bridgeport
		(3) GDM V229 HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
		GDM V14 ORW GON	10000	Groton
		GDM V229 HFD	10000	Hartford
		GDM V151 GAILS GDM V151 PVD V405 MVY	10000 10000	Hyannis Marthas Vineyard
		GDM V151 PVD V405 MV1 GDM V151 PVD PVD167 NEWBE DEEPO	10000	Nantucket
		GDM V431 LOBBY	10000	Norwood
		GDM V151 PVD	10000	Providence
		GDM V151 GAILS	10000	Provincetown
		CTR V93 STUBY V205 TRESA	10000	Stewart
		GDM V229 SPENO	10000	Worcester
Boston ARTCC/Lebanon		LEB LEB167 BASUU (BED/FIT/6B6) or V141 CON LWM (BVY/LWM/2B2)	10000	Bedford
		V141 CON CON135 TOMIE LWM	10000	Boston
			10000	Bradley
		V151 GDM V229 HFD V1 MAD V475 BDB	10000 10000	Bridgeport
		V151 GDM V229 HFD V1 MAD V475 BDR BDR288 RYMES		Danbury
		V151 GDM V14 ORW GON	10000	Groton
		V151 GDM V229 HFD	10000	Hartford
		V141 CON LWM BOS GAILS V141 CON LWM BOS	10000 10000	Hyannis Marthas Vineyard
		V141 CON LWM BOS V141 CON LWM BOS LFV	10000	Nantucket
		LEB LEB167 BASUU	10000	Norwood
i		V151 PVD	10000	Providence
	N	E. 23 SEP 2010 to 18 NOV 2010		

Destination

Worcester

Atlantic City

Atlantic City

Augusta Baltimore

 10000
 Baltimore

 10000
 Bangor

 10000
 Bar Harbor

 10000
 Bedford & NO SATS

Bridgeport Buffalo

Concord Danbury

Danbury

Elmira

Groton

Hyannis

Frie

Islip

10000 Kennedy

10000 LaGuardia 10000 Lebanon

10000 Manchester

Keene

Marthas Vineyard

McGuire AFB

McGuire AFB

Newark & SATS

Newark & SATS

N.E. Philadelphia

N.E. Philadelphia

Nantucket

Norwood

Portland

10000 Providence

10000 Richmond

10000 Richmond

Philadelphia

Philadelphia

Portsmouth

Provincetown

Portsmouth

Rochester

Stewart

Syracuse

Trenton

Trenton

Baltimore

Bar Harbor

Bedford & NO SATS

10000 Baltimore

10000 Bar Harbor

10000 Bangor

10000 Bangor

Dover AFB

Dover AFB

Albany

Provincetown

Allentown/Harrisburg

Boston & SO SATS

Altitude

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 PWL V106 WEETS HUO V162
 (1) GON CCC V16 JFK V229
 GON HTO V308 BRIGS
 EEN V93 CON
 (1) GON CCC V16 ENO V268
 GON HTO V268
 EEN V93 CON V39 AUG
 EEN V93 ENE
 GRAYM HFD053 DREEM
 PUT PUT 105 WOONS
 HFD
 ALB V14
 EEN V93 CON
 (3) HFD V1 MAD V475 BDR BDR288 RYMES
 (5) V405 VEERS IGN V157 HAARP
 (1) GON CCC V16 ENO
 GON HTO V268 ENO
 CTR V270

............. (3) HFD V1 MAD V475

..... EEN V151

..... EEN

Route

..... DIRECT

..... V141 CON LWM BOS

...... V151 GDM V229 SPENO

Approach Control Area

(Including Satellites)

Bradley/Hartford

Bradley

(5) V405 VEERS IGN V157 HAARP
(1) GON CCC V16 ENO
GON HTO V268 ENO
CTR V270
CTR V270
HFD GON
PVD V151 GAILS
GON CCC
DIRECT
GON CC V16 DPK

..... PVD V405 MVY (1) GON CCC V16 CYN GON HTO V308 DRIFT V312 CYN PVD PVD167 NEWBE DEEPO (3) HFD V3 CMK V623 SAX (1) GON CCC V16 DIXIE V276 ARD GON HTO V308 MANTA V276 ARD PUT PUT105 WOONS (1) GON CCC V16 VCN OOD GON HTO V308 BRIGS ACY V184 OOD (3) VAPER V39 GDM V106 RAYMY (5) EEN DIRECT PVD V151 GAILS (1) GON CCC V16 GON HTO V268 ENO V16 ALB VEERS V205 TRESA ALB (1) GON CCC V16 DIXIE V276 RBV GON HTO V308 MANTA V276 RBV GON HTO (3) HFD V1 MAD V475 BDR BDR288 RYMES PWL V106 LHY DIRECT

..... PWL V106 WEETS HUO V162

...... HFD CLOWW (/E, /F, /G only)

...... (1) GON CCC V16 ENO V268

...... HFD CLOWW (/E, /F, /G only)

...... HFD CLOWW (/E, /F, /G only)

...... (1) GON CCC V16 JFK V229

...... GON HTO V308 BRIGS

..... GON HTO V268

..... HFD V229 GDM V39 CON

...... HFD V229 GDM V39 AUG

..... HFD V229 GDM V106 ENE

..... HFD HFD053 DREEM

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Westhampton Beach White Plains Wilkes-Barre Albany Allentown/Harrisburg Atlantic City Atlantic City Augusta Augusta

49 NOV 2040

Approach Control Area		Highest	
(Including Satellites)	Route	Altitude	Destination
	HFD V3 WOONS	10000	Boston & SO SATS
		10000	Bridgeport
		10000	Buffalo
	HFD V229 GDM V39 CON	10000	Concord Concord
	HFD CLOWW (/E, /F, /G only) (3) HFD V1 MAD V475 BDR BDR288 RYMES	10000 10000	Danbury
	(5) BDL V405 VEERS IGN V157 HAARP	10000	Danbury
	(1) GON CCC V16 ENO	10000	Dover AFB
	GON HTO V268 ENO	10000	Dover AFB
	CTR V270	10000	Elmira
	CTR V270	10000	Erie
	 HFD GON	10000	Groton
	 HFD V167 PVD V151 GAILS	10000	Hyannis
	GON CCC	10000	Islip
	HFD V229 GDM	10000	Keene
	GON CCC V16 DPK	10000	Kennedy
	(3) HFD V1 MAD V475	10000	LaGuardia
	HFD V229 GDM V151	10000	Lebanon
	HFD V229 GDM V106 MHT	10000	Manchester
	HFD CLOWW (/E, /F, /G only) GON V374 MVY	10000 10000	Manchester Marthas Vineyard
	(1) GON CCC V16 CYN	10000	McGuire AFB
	GON HTO V308 DRIFT V312 CYN	10000	McGuire AFB
	GON V58 NEWBE DEEPO	10000	Nantucket
	(1) HFD V229 SEALL V188 CMK V623 SAX	10000	Newark & SATS
	(3) HFD V3 CMK V623 SAX	10000	Newark & SATS
	 (1) GON CCC V16 DIXIE V276 ARD	10000	N.E. Philadelphia
	 GON HTO V308 MANTA V276 ARD	10000	N.E. Philadelphia
	 PUT PUT105 WOONS	10000	Norwood
	(1) GON CCC V16 VCN OOD	10000	Philadelphia
	GON HTO V308 BRIGS ACY V184 OOD	10000	Philadelphia
	HFD V229 GDM V106 ENE	10000	Portland
	HFD CLOWW (/E, /F, /G only)	10000	Portland
	HFD V229 GDM V106 RAYMY	10000 10000	Portsmouth Portsmouth
	HFD CLOWW (/E, /F, /G only) HFD V167 PVD	10000	Providence
	PVD V151 GAILS	10000	Provincetown
	(1) GON CCC V16	10000	Richmond
	GON HTO V268 ENO V16	10000	Richmond
		10000	Rochester
	 VEERS V205 TRESA	10000	Stewart
	 ALB	10000	Syracuse
	(1) GON CCC V16 DIXIE V276 RBV	10000	Trenton
	GON HTO V308 MANTA V276 RBV	10000	Trenton
	GON HTO	10000	Westhampton Beach
	(3) HFD V1 MAD V475 BDR BDR288 RYMES	10000	White Plains
	 PWL V106 LHY	5000	Wilkes-Barre
Bradley/Worcester		10000	Albany
	PWL V106 WEETS HUO V162	5000	Allentown/Harrisburg
	(1) ORW V16 JFK V229 ORW HTO V308 BRIGS	10000	Atlantic City
	GDM V93 CON	10000 10000	Atlantic City Augusta
	(1) ORW V16 ENO V268	10000	Baltimore
	ORW HTO V268	10000	Baltimore
	GDM V39 AUG	10000	Bangor
	GDM V106 ENE	10000	Bar Harbor
	 DREEM	10000	Bedford & NO SATS
	 PUT PUT105 WOONS	10000	Boston & SO SATS
		10000	Bridgeport
	CTR ALB V14	10000	Buffalo
		10000	Concord
	(3) HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
	(5) BAF IGN V157 HAARP	10000	Danbury
	(1) ORW V16 ENO	10000	Dover AFB
	ORW HTO V268 ENO	10000 10000	Dover AFB
	CTR V270 CTR V270	10000	Elmira Erie
	ORW GON	10000	Groton
	PUT V151 GAILS	10000	Hyannis
	 		<i>y</i>
	 ORW V16 CCC	10000	Islip

...... (3) HFD V1 MAD V475

...... PUT V151 PVD V405 MVY

..... ORW V16 DPK

..... GDM V106 MHT

..... GDM V151

TOWER ENROUTE CONTROL

Kennedy

Lehanon

LaGuardia

Manchester

McGuire AFB McGuire AFB

Newark & SATS

Newark & SATS

N.E. Philadelphia

N.E. Phildelphia

Nantucket

Norwood

Portland

Philadelphia

Philadelpia

Portsmouth

Providence

Richmond

Richmond

Rochester

Stewart

Trenton

Trenton

Syracuse

Provincetown

Marthas Vinevard

Highest

Altitude

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Groton

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Hyannis Marthas Vineyard

Norwich

Norwood

Stewart

Albany

Augusta

Baltimore

Baltimore

Bar Harbor

Boston & Sats

Bangor

Bedford

Bradley

Bridgeport

Providence

Provincetown

Atlantic City Atlantic City

Nantucket

5000

46

Bridgeport (See New Yo	rk / Bridgenort
Bridgoport (Goo Hon 10	only Bridgeport
Buffalo	
Buffalo	

Cape/Hyannis

(1) ORW V16 CYN ORW V308 DRIFT V312 CYN PUT V151 PVD PVD167 NEWBE DEEPO (1) HFD V229 SEALL V188 CMK V623 SAX (3) HDF V3 CMK V623 SAX (1) ORW V16 DIXIE V276 ARD ORW V308 MANTA V276 ARD PUT PUT105 WOONS (1) ORW V16 VCN OOD ORW V308 BRIGS ACY V184 OOD GDM V106 ENE GDM V106 RAYMY PUT PVD PUT V151 GAILS (1) ORW V16 ORW HTO V268 ENO V16 CTR ALB VEERS V205 TRESA CTR ALB (1) ORW V16 DIXIE V276 RBV ORW SOOR MANTA V276 RBV ORW HTO (3) HFD V1 MAD V475 BDR BDR288 RYMES PWL V106 LHY
t)
V2 V14 V115 V2
CAM V141 LEB LEB167 BASUU V141 CON LWM (3) V141 CON TOMIE LWM EEN ALB V44 DENNA (3) ALB V123 HAARP (4) ALB V157 HAARP V229 GDM V14 ORW GON V229 HFD V141 CON LWM BOS GAILS V141 CON LWM BOS V141 CON LWM BOS V141 LON LWM BOS V141 LON LWM BOS V141 LEB LEB167 BASUU V229 GDM V151 PVD V141 CON LWM BOS ALB V123 TRESA
PVD V146 MVY MVY230 V34 SEY HTO V308 BRIGS (1) MINNK V374 GON CCC V16 JFK V229 FREDO BOS PSM ENE MVY MVY230 V34 SEY HTO V268

..... (water) MVY MVY230 V34 SEY HTO HT0302

..... FREDO BOS PSM ENE BGR

..... FREDO BOS PSM ENE

..... FREDO

..... FREDO

..... PVD V405 BDL

KEYED

Highest

Approach Control Area

(Including Satellites) Route Altitude Destination (land) MINNK V374 CREAM 10000 Bridgeport PVD V146 ALB V14 10000 Buffalo PVD V151 GDM V229 10000 Burlington FREDO BOS MHT CON 10000 Concord (3) PVD HFD V1 MAD V475 BDR BDR288 10000 Danbury RYMES (5) PVD V146 BAF V157 HAARP 10000 Danbury MVY MVY230 V34 SEY HTO V268 ENO 10000 Dover AFB (1) MINNK V374 GON CCC V16 ENO Dover AFB 10000 PVD V146 CTR V270 10000 Elmira PVD V146 CTR V270 10000 Erie 10000 Farmingdale (1) MINNK V374 GON CCC V16 DPK 10000 Farmingdale Groton 10000 Direct PVD HFD 10000 Hartford (5) MVY MVY230 V34 SEY V268 HTO V46 CCC 10000 Islin (1) MINNK V374 GON CCC 10000 Islip PVD V151 GDM 10000 Keene (5) MVY MVY230 V34 SEY HTO V46 DPK 10000 Kennedy (1) MINNK V374 GON CCC V16 DPK 10000 Kennedy PVD V167 HFD VI MAD V475 10000 LaGuardia PVD V151 10000 Lebanon FREDO BOS 10000 Manchester MVY MVY230 V34 SEY HTO V308 DRIFT V312 10000 McGuire AFB (1) MINNK V374 GON CCC V16 CYN 10000 McGuire AFB (1) PVD V167 HFD V229 SEALL V188 CMK 10000 Newark & SATS V623 SAX (3) PVD V167 HFD V3 CMK V623 SAX 10000 Newark & SATS MVY MVY230 V34 SEY V268 HTO V46 CCC V16 10000 N.E. Philadelphi DIXIF V276 ARD 10000 N.E. Philadelphi FREDO 10000 Norwood MVY MVY230 V34 SEY HTO V308 BRIGS ACY 10000 Philadelphia V184 00D Philadelphia (1) MINNK V374 GON CCC V16 VCN OOD 10000 FREDO BOS PSM ENE 10000 Portland FREDO BOS 10000 Portsmouth Direct 10000 Providence MVY MVY230 V34 SEY HTO V308 CHOPS V16 10000 Richmond (1) MINNK V374 GON CCC V16 10000 Richmond PVD V146 ALB 10000 Rochester PVD V405 BDL V205 TRESA 10000 Stewart PVD V146 ALB 10000 Syracuse MVY MVY230 V34 SEY HTO V308 MANTA V276 10000 Trenton RRV 10000 Trenton (5) MVY MVY230 V34 SEY V268 HTO V46 CCC Westhampton B 10000 (1) MINNK V374 GON CCC 10000 Westhampton B PVD V167 HFD V1 MAD V475 BDR BDR288 10000 White Plains RYMES PVD PUT 10000 Worcester PVD V146 Cape/Martha's 10000 Albany MVY MVY230 V34 SEY HTO V308 BRIGS Vineyard 10000 Atlantic City (1) V374 GON CCC V16 JFK V229 10000 Atlantic City MVY MVY230 V34 SEY HTO V268 10000 Baltimore (1) V374 GON CCC V16 ENO V268 10000 Baltimore FREDO BOS PSM ENE 10000 Bar Harbor FREDO 10000 Boston & SATS PVD V405 BDL 10000 Bradley MVY MVY230 V34 SEY HTO HT0302 KEYED 10000 Bridgeport (water) (land) V374 CREAM 10000 Bridgeport PVD V146 ALB V14 10000 Buffalo PVD V151 GDM V229 10000 Burlington FREDO BOS MHT CON 10000 Concord (3) PVD HFD V1 MAD V475 BDR BDR288 10000 Danbury RYMES (5) MVY V146 BAF IGN V157 HAARP 10000 Danbury

Highest

Cape/Nantucket

pproach Control Area

Including Satellites)

a	Route	Altitudo	Dactination
	(1) MVY MVY230 V34 SEY HTO V268 ENO	Altitude 10000	Destination Dover AFB
	(1) V374 GON CCC V16 ENO	10000	Dover AFB
	PVD V146 CTR V270	10000	Elmira
	PVD V146 CTR V270	10000	Erie
	(5) MVY MVY230 V34 SEY V268 HTO V46 DPK	10000	Farmingdale
	(1) V374 GON CCC V16 DPK	10000	Farmingdale
		10000	Groton
	MVY MVY230 V58 HFD	10000	Hartford
	(5) MVY MVY230 V34 SEY V268 HTO V46 CCC	10000	Islip
	(1) V374 GON CCC	10000	Islip
	PVD V151 GDM	10000	Keene
	 (5) MVY MVY230 V34 SEY V268 HTO V46 DPK	10000	Kennedy
	 (1) V374 GON CCC V16 DPK	10000	Kennedy
	PVD V167 HFD V1 MAD V475	10000	LaGuardia
	 PVD V151	10000	Lebanon
	FREDO BOS MHT	10000	Manchester
	 MVY MVY230 V34 SEY HTO V308 DRIFT V312	10000	McGuire AFB
	CYN		
	(1) V374 GON CCC V16 CYN	10000	McGuire AFB
	(1) PVD V167 HFD V229 V188 CMK V623 SAX	10000	Newark & SATS
	(3) PVD V167 HFD V3 CMK V623 SAX	10000	Newark & SATS
	 MVY MVY230 V34 SEY HTO V308 MANTA V276	10000	N.E. Philadelphia
	ARD		
	(1) V374 GON CCC V16 DIXIE V276 ARD	10000	N.E. Philadelphia
		10000	Norwood
	 MVY MVY230 V34 SEY HTO V308 BRIGS ACY	10000	Philadelphia
	V184 00D	40000	District Labor
	(1) V374 GON CCC V16 VCN OOD	10000	Philadelphia
	FREDO BOS PSM ENE	10000	Portland Portsmouth
	 FREDO BOS PSM	10000 10000	Providence
	MVY MVY230 V34 SEY HTO V308 CHOPS V16	10000	Richmond
	(1) V374 GON CCC V16	10000	Richmond
	PVD V146 ALB	10000	Rochester
	PVD V405 BDL V205 STUBY	10000	Stewart
	PVD V146 ALB	10000	Syracuse
	MVY MVY230 V34 SEY HTO V308 MANTA V267	10000	Trenton
	RBV		
	 (1) V374 GON CCC V16 DIXIE V276 ARD	10000	Trenton
	MVY MVY230 V34 SEY V268 HTO V46 CCC	10000	Westhampton Beach
	(1) V374 GON CCC	10000	Westhampton Beach
	 PVD V167 HFD V1 MAD V475 BDR BDR288	10000	White Plains
	RYMES		
	 PVD PUT	10000	Worcester
	 ACK 146	10000	Albany
	 ACK V34 SEY HTO V308 BRIGGS	10000	Atlantic City
	 (1) ACK V146 MVY V374 GON CCC V16 JFK	10000	Atlantic City
	V229		
	ACK FREDO BOS PSM ENE	10000	Augusta
	ACK V34 SEY HTO V268	10000	Baltimore
	 (1) ACK V146 MVY V374 GON CCC V16 ENO	10000	Baltimore
	V268		
	ACK FREDO BOS PSM ENE BGR	10000	Bangor
	ACK FREDO BOS PSM ENE	10000	Bar Harbor
	ACK FREDO	10000	Bedford
	ACK FREDO	10000	Boston & SATS
	ACK V146 PVD V405 BDL	10000	Bridge
	ACK V34 SEY HTO HTO302 KEYED (water)	10000	Bridgeport
	(land) ACK V146 MVY V374 CREAM ACK V146 ALB V14	10000	Bridgeport
		10000	Buffalo
	ACK V146 PVD V151 GDM V229 ACK FREDO BOS MHT CON	10000 10000	Burlington Concord
	(3) ACK V146 PVD HFD V1 MAD V475 BDR	10000	Danbury
	 BDR288 RYMES	10000	Danbury
	(5) ACK V146 BAF IGN V157 HAARP	10000	Danbury
	ACK V34 SEY HTO V268 ENO	10000	Danbury Dover AFB
	(1) ACK V146 MVY V374 GON CCC V16 ENO	10000	Dover AFB
	ACK V146 CTR V270	10000	Elmira
	ACK V146 CTR V270	10000	Erie
	 		·-

Approach Control Area	Douto	Highest	Doctingtic=
(Including Satellites)	Route	Altitude	Destination
	(5) ACK V34 SEY V268 HTO V46 DPK	10000	Farmingdale
	(1) ACK V146 MVY V374 GON CCC V16 DPK	10000	Farmingdale
		10000	Groton
	ACK V58 HFD	10000	Hartford
	(5) ACK V34 SEY V268 HTO V46 CCC	10000	Islip
	(1) ACK V146 MVY V374 GON CCC	10000	Islip
	ACK V146 PVD V151 GDM	10000	Keene
	(5) ACK V34 SEY V268 HTO V46 DPK	10000	Kennedy
	(1) ACK V146 MVY V374 GON CCC V16 DPK	10000	Kennedy
	ACK V146 PVD V167 HFD V1 MAD V475	10000	La Guardia
	 ACK V146 PVD V151	10000	Lebanon
	ACK FREDO BOS MHT	10000	Manchester
	ACK V34 SEY HTO V308 DRIFT V312 CYN	10000	McGuire AFB
	 (1) ACK V146 MVY V374 GON CCC V16 CYN	10000	McGuire AFB
	 (1) ACK V146 PVD V167 HFD V229 V188 CMK	10000	Newark & SATS
	V623 SAX		
	 (3) ACK V146 PVD V167 HFD V3 CMK V623 SAX	10000	Newark & SATS
	 ACK V34 SEY HTO V308 MANTA V276 ARD	10000	N.E. Philadelphi
	(1) ACK V146 MVY V374 GON CCC V16 DIXIE	10000	N.E. Philadelphi
	V276 ARD		
	ACK FREDO	10000	Norwood
	ACK V34 SEY HTO V308 BRIGS ACY V184 OOD	10000	Philadelphia
	(1) ACK V146 MVY V374 GON CCC V16 VCN	10000	Philadelphia
	 00D	10000	ı ımaucıpına
		10000	Portland
	ACK FREDO BOS PSM ENE	10000	Portland
	ACK FREDO BOS PSM	10000	Portsmouth Providence
	ACK V146 PVD	10000	
	ACK V34 SEY HTO V308 CHOPS V16	10000	Richmond
	(1) ACK V146 MVY V374 GON CCC V16	10000	Richmond
	ACK V146 PVD V405 BDL V205 TRESA	10000	Stewart
	ACK V146 ALB	10000	Syracuse
	ACK V34 SEY HTO V308 MANTA V276 RBV	10000	Trenton
	 (1) ACK V146 MVY V374 GON CCC V16 DIXIE	10000	Trenton
	V276 ARD		
	 (5) ACK V34 SEY V268 HTO	10000	Westhampton B
	 (1) ACK V146 MVY V374 GON CCC	10000	Westhampton B
	 ACK V146 PVD V167 HFD V1 MAD V475 BDR	10000	White Plains
	BDR288 RYMES		
	 ACK V146 PUT	10000	Worcester
Charleston		9000	Clarksburg
	 V4	9000	Elkins
	 HVQ HVQ268 KIRRK	10000	Huntington
Clarksburg	 V35	10000	Charleston
	V37 EKN V4	10000	Charleston
		8000	Morgantown
	V37 (OTFC only)	8000	Pittsburgh
	 (2000	. recondigit
Dover AFB	ENO V268 LEEAH	7000	Atlantic City
DOTOL VID	ENO V268 SWANN	6000	Baltimore
		7000	
	V16 JFK V229 BDR (Single Engine only)		Bridgeport Faston
	ENO V16 HEDGE	3000	Easton
	V16 JFK V229 (Single Engine only)	7000	Hartford
	ENO V16 CYN	7000	McGuire AFB
	ENO V29 SBY V1	6000	Norfolk
		6000	Patuxent River
	ENO V29 PXT063 PXT	4000	Patuxent River
	ENO V29 DQ0	5000	Philadelphia
	ENO V29	6000	Salisbury
	ENO V16 V308 OTT	6000	Washington
	 ENO V29 DQ0	5000	Wilmington
Dalla	DIDECT	4000	D-Min.
Dulles		4000	Baltimore
	 MRB V214 WOOLY EMI V419 MXE ARD V214	7000	Newark
	METRO (-180 kts)		
	 MRB V214 WOOLY EMI V419 MXE V3 SBJ TEB	7000	Teterboro
	METRO (-180 kts only)		
	 DIRECT	3000	Washington
			-

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Destination

Binghamton

Wilkes-Barre

Buffalo

Buffalo

Buffalo

Buffalo

Buffalo Buffalo

Buffalo

Cleveland

Cleveland

Cleveland

8000 Pittsburgh

10,000 Albany

10,000 Albany

10,000 Syracuse

7000 Allentown

8000 Youngstown 10,000 Albany

8000 Binghamton

Elmira

Glens Falls

Syracuse

Syracuse

Allentown

Atlantic City

Baltimore

Baltimore

Dulles

Dulles

Kennedy

LaGuardia

Newark

Newark

Reading

Reading

Philadelphia

7000 Kennedy

7000 LaGuardia

Atlantic City

Binghamton

Rochester

Albany

Approach Control Area (Including Satellites)	Route	Highest Altitude
	V428 V14 V72	8000 8000

..... V147

..... V31 8000 Rochester V35 8000 Syracuse V36 V29 8000 V147 8000 Wilkes-Barre V43 9000 9000

..... V14 V2 V90 DKK V464 DKK JHW V115 JHW V265 DKK V522 V188 JFN (East-bound)

...... V522 (East-bound) JFN V14 MENTO (West-bound) V37 (Overflight traffic only) V43 Griffiss UCA V490 GALWA UCA V2 GGT V14

Frie

Harrisburg

..... UCA V428 V29 UCA V428 UCA V496 UCA V2

..... UCA V428 V153 V14 V153 HAR V162 ETX LRP V39 ETX

..... HAR V469 OOD V184 LRP LRP144 PADRE DQ0 00D V184 LRP V499 HAR V31 LRP V499 LRP V39 ROBRT AML

..... HAR V162 V39 ROBRT AML LRP V39 V162 FJC V6 V232 COL (Props only) HAR V162 FJC V6 V232 COL (Props only) HAR V162 FJC V6 V232 TYKES V123 NANCI (Props only) LRP V39 V162 FJC V6 V232 TYKES V123 NANCI (Props only) HAR V162 FJC BWZ (Props only) LRP V39 V162 FJC BWZ (Jets only)

..... LRP V210 BUNTS HAR V210 BUNTS LRP LRP082 HUMEL (RDG ILS) HAR V12 BOYER

..... HAR RAV HZL

..... V469

..... V128

..... DIRECT

..... V4

Huntington

Manchester

..... LRP V93

...... HAR V162 FJC STW LRP V93 BAL

..... LRP V39 V162 FJC STW HAR V265 KRANT HAR V162 FJC STW SAX V39 BREZY LRP V39 V162 FJC STW SAX V39 BREZY

..... LRP LRP144 PADRE DOO

..... EEN V93 V292 V408 LHY

...... GDM ORW V308 BRIGS

..... (1) GDM ORW V16 JFK V229

NE. 23 SEP 2010 to 18 NOV 2010

7000

5000

9000

10000

10000

10000

9000

5000

Teterboro Teterboro

Wilmington

Charleston

Charleston

Allentown

Atlantic City

Atlantic City

9000 Charleston

Wilkes-Barre

Westchester Co. Westchester Co. Wilmington

Washington Washington Wilkes-Barre

North Philadelphia

...... (1) GDM ORW V16 ENO V268 SWANN

Highest

Altitude

10000

Destination

Baltimore

Approach Control Area

(Including Satellites)

	 GDM ORW HTO V268 SWANN	10000	Baltimore
	EEN V93 V292 V408 LHY V93 BAL	10000	Baltimore
	(1) GDM ORW V16 JFK COL	10000	Belmar
	GDM ORW V308 MANTA V276 DIXIE	10000	Belmar
	TOMIE LWM	10000	Boston
	GDM V229 WITNY	10000	Bradley
	CLOWW WITNY (/E, /F, /G only)	10000	Bradley
	GDM V229 HFD	10000	Bridgeport
	 CLOWW WITNY HFD (/E, /F, /G only)	10000	Bridgeport
	 (3) GDM V229 HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
	(3) CLOWW WITNY HFD V1 MAD V475 BDR BDR288 RYMES (/E, /F, /G only)	10000	Danbury
	 (1) GDM ORW V16 ENO	10000	Dover AFB
	GDM ORW V308 HTO V268 ENO	10000	Dover AFB
	EEN V93 CTR V270	10000	Elmira
	GDM ORW V16 DPK	10000	Farmingdale
	GDM V14 ORW GON	10000	Groton
	EEN V93 V292 V408 LHY V93 V162 HAR	10000	Harrisburg
	GDM V229 HFD	10000	Hartford
	CLOWW WITNY HFD (/E, /F, /G only)	10000	Hartford
	LWM BOS GAILS	10000	Hyannis
	GDM ORW V16 CCC	10000	Islip
	GDM ORW V16 DPK	10000	Kennedy
	(3) GDM V229 HFD V1 MAD V475	10000	LaGuardia
	EEN V93 V292 V408 LHY V93	10000	Lancaster
		10000	Marthas Vineyard
	 (1) GDM V229 SEALL V188 CMK V623 SAX	10000 10000	Nantucket Newark & SATS
	(3) GDM V3 CMK V623 SAX		
	(1) CLOWW WITNY HFD V229 V188 CMK V623	10000 10000	Newark & SATS Newark & SATS
	SAX (/E, /F, /G only)		
	(3) CLOWW WITNY HFD V3 CMK V623 SAX (/E, /F, /G only)	10000	Newark & SATS
	GDM V229 HFD	10000	New Haven
	CLOWW WITNY HFD (/E, /F, /G only)	10000	New Haven
	(1) GDM ORW V16 JFK V1	10000	Norfolk
	GDM ORW V308 HTO V139	10000	Norfolk
	(1) GDM ORW V16 DIXIE V276 ARD	10000	N.E. Philadelphia
	GDM ORW V308 MANTA V276 ARD	10000	N.E. Philadelphia
	(1) GDM ORW V16 VCN OOD	10000	Philadelphia
	GDM ORW V308 BRIGS ACY V184 OOD EEN V93 V292 V408 LHY V58 GRACE	10000 10000	Philadelphia Pittsburgh
		10000	Pittsfield
		10000	Providence
	 GDM V151 PVD	10000	Provincetown
	 (1) GDM ORW V16	10000	Richmond
	GDM ORW HTO V268 ENO V16	10000	Richmond
	GDM V39 STUBY V205 TRESA	10000	Stewart
	CAM V490 UCA	10000	Syracuse
	(1) GDM ORW V16 DIXIE V276 RBV	10000	Trenton
	GDM ORW V308 MANTA V276 RBV	10000	Trenton
	GDM V229 HFD V3 SORRY	10000	Waterbury-Oxford
	CLOWW WITNY HFD (/E, /F, /G only)	10000	Waterbury-Oxford
	GDM ORW V308 HTO	10000	Westhampton Be
	(3) GDM V229 HFD V1 MAD V475 BDR BDR288 RYMES	10000	White Plains
	 (5) EEN V93 PWL IGN V157 HAARP	10000	White Plains
	(3) CLOWW WITNY HFD V1 MAD V475 BDR BDR288 RYMES (/E, /F, /G only)	10000	White Plains
		10000	Wildwood
	(1) GDM ORW V16 JFK V229 PANZE V44 SIE		
	GDM ORW V308 SIE EEN V93 V292 V408 LHY	10000 10000	Wildwood Wilkes-Barre
	GDM V229 SPENO	10000	Worcester
	EEN V93 V292 V408 LHY	10000	Allentown
Manchester/Pease	(1) MHT V106 GDM ORW V16 JFK V229	10000	Atlantic City
Manchester/Pease	MHT V106 GDM ORW V308 BRIGS	10000	Atlantic City

TOWER ENROUTE CONTROL

pproach Control Area	
Including Satellites)	Route
-	 (1) MHT V106 GDI

Route (1) MHT V106 CDM OPW V16 END V269	Highest Altitude 10000	Destination Paltimore
 (1) MHT V106 GDM ORW V16 ENO V268 SWANN	10000	Baltimore
 MHT V106 GDM ORW HTO V268 SWANN	10000	Baltimore
 EEN V93 V292 V408 LHY V93 BAL	10000	Baltimore
	10000	Bedford
 (1) MHT V106 GDM ORW V16 JFK COL	10000	Belmar
 MHT V106 GDM ORW V308 MANTA V276 DIXIE	10000	Belmar
STEVO LWM	10000	Boston
 MHT V106 GDM V229 WITNY	10000	Bradley
 CLOWW WITNY (/E, /F, /G only)	10000	Bradley
 MHT V106 GDM V229 HFD	10000	Bridgeport
 CLOWW WITNY HFD (/E, /F, /G only)	10000	Bridgeport
 (3) MHT V106 GDM V229 HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
 (3) CLOWW WITNY HFD V1 MAD V475 BDR BDR288 RYMES (/E, /F, /G only)	10000	Danbury
 (1) MHT V106 GDM ORW V16 ENO	10000	Dover AFB
 MHT V106 GDM ORW V308 HTO V268 ENO	10000	Dover AFB
 EEN V93 CTR V270	10000	Elmira
MHT V106 GDM ORW V16 DPK	10000	Farmingdale
MHT V106 GDM V14 ORW GON	10000	Groton
EEN V93 V292 V408 LHY V93 V162 HAR	10000	Harrisburg
MHT V106 GDM V229 HFD	10000	Hartford
CLOWW WITNY HFD (/E, /F, /G only)	10000	Hartford
EXALT V139 TONNI	10000	Hyannis
MHT V106 GDM ORW V16 CCC	10000	Islip
MHT V106 GDM ORW V16 DPK	10000	Kennedy
(3) MHT V106 GDM V229 HFD V1 MAD V475	10000	LaGuardia
EEN V93 V292 V408 LHY V93	10000	Lancaster
EXALT V139 TONNI	10000	Marthas Vineyard
EXALT V139 TONNI	10000	,
		Nantucket Newark & SATS
 (1) MHT V106 GDM V229 SEALL V188 CMK V623 SAX	10000	Newark & SAIS
	10000	Name of CATC
(3) MHT V106 GDM V3 CMK V623 SAX	10000	Newark & SATS
 (1) CLOWW WITNY HFD V229 V188 CMK V623	10000	Newark & SATS
 SAX (/E, /F, /G only) (3) CLOWW WITNY HFD V3 CMK V623 SAX (/E,	10000	Newark & SATS
/F, /G only)	10000	New Heres
MHT V106 GDM V229 HFD	10000	New Haven
CLOWW WITNY HFD (/E, /F, /G only)	10000	New Haven
(1) MHT V106 GDM ORW V16 JFK V1	10000	Norfolk
MHT V106 GDM ORW V308 HTO V139	10000	Norfolk
	10000	Norwood
(1) MHT V106 GDM ORW V16 DIXIE V276 ARD	10000	N.E. Philadelphia
MHT V106 GDM ORW V308 MANTA V276 ARD	10000	N.E. Philadelphia
(1) MHT V106 GDM ORW V16 VCN OOD MHT V106 GDM ORW V308 BRIGS ACY V184	10000 10000	Philadephia Philadelphia
 00D EEN V93 V292 V408 LHY V58 GRACE	10000	Pittsburgh
EEN CTR	10000	Pittsfield
MHT V106 GDM V151 PVD	10000	Providence
EXALT V139 TONNI	10000	Provincetown
(1) MHT V106 GDM ORW V16	10000	Richmond
MHT V106 GDM ORW HTO V268 ENO V16	10000	Richmond
MHT V106 GDM V39 STUBY V205 TRESA	10000	Stewart
MHT V490 UCA	10000	Syracuse
(1) MHT V106 GDM ORW V16 DIXIE V276 RBV	10000	Trenton
MHT V106 GDM ORW V308 MANTA V276 RBV	10000	Trenton
MHT V106 GDM V229 HFD V3 SORRY	10000	Waterbury-Oxford
CLOWW WITNY HFD (/E, /F, /G only)		
	10000	Waterbury-Oxford
MHT V106 GDM ORW V308 HTO (3) MHT V106 GDM V229 HFD V1 MAD V475 BDR BDR288 RYMES	10000 10000	Westhampton Bea
	40000	Mileita Di-i
(5) EEN V93 PWL IGN V157 HAARP (3) CLOWW WITNY HFD V1 MAD V475 BDR	10000 10000	White Plains White Plains
BDR288 RYMES (/E, /F, /G only) (1) MHT V106 GDM ORW V16 JFK V229 PANZE V44 SIE	10000	Wildwood
 V44 315		
 MHT V106.GDM ORW V308 SIE EEN V93 V292 V408 LHY	10000 10000	Wildwood Wilkes-Barre

468 TOWER ENROUTE CONTROL Approach Control Area

Highest

(Including Catallitae)	Davida	nigilest	Doctination
(Including Satellites)	Route	Altitude	Destination
	 MHT V106 GDM V229 SPENO	10000	Worcester
McGuire	 V16 DIXIE V229	4000	Atlantic City
	 COL COL192 DIXIE V229	4000	Atlantic City
	 DIXIE V16 VCN (Overflights only)	6000	Atlantic City
	 CYN V1 HOWIE (Overflights only)	6000	Atlantic City
	 DIXIE V229 BDR BDR014 JUDDS	7000	Bradley
	(Preferred Single Engine Route)		
	 DIXIE V16 ENO	6000	Dover AFB
	DIXIE V229 (Single Engine only)	7000	Hartford
	 DIXIE V229 HFD V167 PVD V151 GAILS (Single	7000	Hyannis
	Engine Only)		
	 RBV V276 DIXIE V16 JFK CCC (Single Engine	5000	Islip
	only)	5000	lalin
	 V184 ZIGGI JFK210 JFK CCC (No single engine; N/A btn 1400–2100 local)	5000	Islip
	 GXU GXU055 RBV122 ZIGGI JFK210 JFK (No	5000	Kennedy
	 Single Engine)	0000	Homiouy
	 RBV V276 DIXIE V16 JFK (Single Engine only)	5000	Kennedy
	RBV V276 ZIGGI JFK210 JFK (Twins only)	5000	Kennedy
	V184 ZIGGI JFK210 JFK (Twins only)	5000	Kennedy
	V229 JFK (Single Engine only)	5000	Kennedy
	RBV V123 NANCI (Props)	4000	LaGuardia
	RBV V123 NANCI (Jets only)	8000	LaGuardia
	DIXIE V229 BDR MAD V475 V188 GON V374	7000	Martha's Vineya
	(Single Engine Only)		•
	 DIXIE V229 BDR MAD V475 V188 GON V58	7000	Nantucket
	NEWBE DEEPO (Single Engine Only)		
	 V184 ZIGGI V276 RBV RBV005 OWBIE (Jets	6000	Newark
	only)		
	 DIXIE V276 RBV RBV005 OWBIE (Single	5000	Newark
	engine only)		
	 V229 DIXIE V276 RBV V249 METRO (Turbojet	4000	Newark (Sats)
	only)	4000	
	V184 ZIGGI V276 ARD	4000	N. Philadelphia
	V1 DIXIE V276 ARD	4000	N. Philadelphia
	RBV V276 ARD	4000	No. Philadelphia
	V1 CYN V312 OOD (Props only)	4000	Philadelphia
	V1 CYN V312 OOD (Jets only)	5000	Philadelphia
	 DIXIE V229 JFK V229 BDR MAD V475 V188	7000	Providence
	GON (Single engine) DIXIE V16 VCN ATR V1	6000	Salisbury
	V184 ZIGGI V276 RBV V249 SAX V39 BREZY	5000	Westchester Co.
	 V104 21001 V270 NBV V243 0/M V03 BRE21	0000	Westernester ee.
New York/Bridgeport	 SOARS V487 CANAN	10000	Albany
,	HUO V162 FJC	5000	Allentown
	DPK V16 DIXIE V229 ACY (Single Engine only)	6000	Atlantic City
	MAD V1 HFD V229 GDM V39 CON	10000	Augusta
	 MAD HFD CLOWW (/E, /F, /G only)	10000	Augusta
	 DPK V16 ENO V268 SWANN (Single Engine	6000	Baltimore
	only)		
	MAD V1 HFD V229 GDM V39 AUG	10000	Bangor
	MAD HFD CLOWW (/E, /F, /G only)	10000	Bangor
	MAD V1 HFD V229 GDM V106 ENE	10000	Bar Harbor
	MAD HFD CLOWW (/E, /F, /G only)	10000	Bar Harbor
	MAD V1 HFD HFD053 DREEM	10000	Bedford
	DPK JFK COL	6000	Belmar
	MAD V475 V188 GON	9000	Block Island
	MAD V1 HFD HFD053 DREEM	9000	Boston (North)
	(3) MAD V475 ORW V16 WOONS	10000	Boston
	 BDR BDR014 JUDDS	10000	Bradley Bridgeport SATS
		2000	
	SOARS V487 CAM BDR JUDDS (/E, /F, /G only)	10000 1000	Burlington Burlington
	HUO V162 HAR	5000	Capital City
	MAD V1 HFD V229 GDM V39 CON	10000	Concord
	MAD HFD CLOWW (/E, /F, /G only)	10000	Concord
	DPK V16 DIXIE V1 LEEAH V268 BAL BAL294	6000	Dulles
	 KROLL AML (Single Engine only)		
	 MAD MAD126 MONDI	7000	Groton

Route

..... MAD V475 PVD V151 GAILS

...... BDR JUDDS WHATE (/E. /F. /G only)

..... BDR JUDDS WHATE (/E, /F, /G only)

..... MAD V1 HFD V229 GDM V106 MHT

..... MAD HFD CLOWW (/E, /F, /G only)

..... MAD V475 V188 GON V374 MVY

...... DPK V16 VCN (Single Engine only)

...... MAD V475 V188 GON V374 MINNK

...... DPK V16 DIXIE V1 (Single Engine only)

...... (3) MAD V475 ORW V16 WOONS

MAD V1 HFD V229 GDM V106 FNF

..... DPK V16 DIXIE V16 CYN (Single Engine only)

...... MAD V475 V188 GON V58 NEWBE DEEPO

...... MAD V1 HFD V229 GDM

...... HUO V162 ETX V39 LRP

..... MAD V1 HFD V229 GDM V151

..... MAD V1 HFD

...... R/V LGA075

..... HTO

..... CCC

..... DPK

..... MAD

..... DIRECT

..... CMK V188 SAX

Approach Control Area

(Including Satellites)

	MAD V1 HFD V229 GDM V106 ENE	10000
	MAD HFD CLOWW (/E, /F, /G only)	10000
	 (3) MAD V1 HFD V229 GDM V106 RAYMY	10000
	MAD HFD CLOWW (/E, /F, /G only)	10000
	MAD V475 V188 GON	9000
	MAD V475 PVD V151 GAILS	10000
	MAD V475 V188 GON	9000
	 SAX V249 SBJ V30 ETX V39 FLOAT (Props	7000
	only)	
	DPK V16 (Single Engine only)	6000
	DPK V16 DIXIE V1 (Single Engine only)	6000
	HAAYS HUO V273 HNK	10000
	 DPK V16 DIXIE V1 V308 OTT (Single Engine only)	6000
	 BDR BDR 288 RYMES	4000
	 DPK V16 DIXIE V229 PANZE V44 SIE (Single	6000
	Engine only)	
	 MAD V1 GRAYM	9000
New York /Islip	 SAX V249 SBJ V30 ETX (Non jet/Non turboprop)	8000
	DPK V16 DIXIE V229 ACY (Single Engine only)	6000
	DPK V16 DIXIE V1 V308 OTT (Single Engine	6000
	only)	
	MAD HFD CLOWW (/E, /F, /G only)	10000
	DPK V16 ENO V268 SWANN (Single Engine only)	6000
	 MAD HFD CLOWW (/E, /F, /G only)	10000
	 MAD HFD CLOWW (/E, /F, /G only)	10000
	 DPK JFK COL	6000
	 HTO V268 SEY	7000
	 HTO V308 ORW V16 WOONS	9000
	 MAD V1 HFD HFD053 DREEM	9000
	BDR BDR014 JUDDS	8000
	BDR BDR014 JUDDS (Jets only)	10000
		4000
	BDR JUDDS (/E, /F, /G only)	10000
	 SAX V249 SBJ V30 ETX V162 HAR (Non jet/Non turboprop only)	8000
	MAD HFD CLOWW (/E, /F, /G only)	10000
	DPK V16 DIXIE V1 LEEAH V268 BAL BAL294	6000
	 KROLL AML (Single Engine only)	0000
	HTO HTOO34 MONDI	7000
		3000
	MAD V1 HFD	5000
	 NIND AT III O	5000
	NE. 23 SEP 2010 to 18 NOV 2010	

10000 Norwood DPK V16 DIXIE V276 ARD (Single Engine only) 6000 N. Philadelphia DIXIE V16 CYN V312 OOD (Single Engine only) 6000 Philadelphia 10000 Portland 10000 Portland 10000 Portsmouth 10000 Portsmouth 9000 Providence 10000 Provincetown 9000 Ouonset 7000 Reading 6000 Richmond 6000 Salisbury 10000 Syracuse 6000 Washington 4000 Westchester Co. Wildwood 6000 9000 Worcester 8000 Allentown 6000 Atlantic City 6000 Andrews AFB 10000 Augusta 6000 Baltimore

Bangor

Belmar

Boston

Bradley

Bradley

Bridgeport

Rurlington

Concord

Dulles

Groton

Hampton

Hartford

Capital City

Bar Harbor

Block Island

Boston (North)

Highest

Altitude

3000

5000

10000

10000

10000

4000

4000

5000

10000

10000

10000

10000

6000

9000

3000

6000

9000

2000

4000

6000

10000

4000

Destination

Hampton

Hartford

Hyannis

Islin

Keene

Keene

Kennedy

LaGuardia

Lancaster

Lebanon

Lebanon

McGuire

Millville

Newark

Norfolk

Nantucket

New Bedford

New Haven

Manchester

Manchester

Martha's Vineyard

Meriden Markham

Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination
-	 HTO V139 PVD V151 GAILS	9000	Hyannis
		2000	Islip (SATS)
	BDR JUDDS WHATE (/E, /F, /G only)	10000	Keene
		3000 5000	Kennedy
	R/V LGA075 HTO HT0302 NESSI LGA075	6000	LaGuardia LaGuardia
	SAX V249 SBJ LANNA V30 ETX V39 LRP (Props	8000	Lancaster
	only) BDR JUDDS WHATE (/E, /F, /G only) DDK V46 CVN (Single Engine only)	10000	Lebanon
	DPK V16 CYN (Single Engine only) MAD HFD CLOWW (/E, /F, /G only)	6000 10000	McGuire Manchester
	HTO V139 WACKY V374 MVY (Single Engine)	9000	Martha's Vin
	HTO V46 CLAMY (Twin Engine)	9000	Martha's Vin
		5000	Meriden
	DPK V16 VCN (Single Engine only)	6000	Millville
	HTO V46 CLAMY (Twin Engine)	9000	Nantucket
	HTO SEY V58 NEWBE DEEPO (Single Engine)	9000	Nantucket
	 HTO V139 WACKY	9000 4000	New Bedford New Haven
	CMK V188 SAX	4000	Newark
	DPK V16 DIXIE V1 (Single Engine only)	6000	Norfolk
	DPK V16 DIXIE V276 ARD (Single Engine only)	6000	N. Philadelph
	 DPK V16 CYN V312 OOD (Single Engine only)	6000	Philadelphia
	MAD HFD CLOWW (/E, /F, /G only)	10000	Portland
	MAD HFD CLOWW (/E, /F, /G only)	10000	Portsmouth
	HTO V139 WACKY	9000 9000	Providence
	HTO V139 WACKY SAX V249 SBJ V30 ETX V39 FLOAT (Non	8000	Quonset Reading
	 jet/Non turboprop only)	8000	ricading
	 DPK V16 (Single Engine only)	6000	Richmond
	DPK V16 DIXIE V1 (Single Engine only)	6000	Salisbury
	 DPK V16 DIXIE V1 V308 OTT (Single Engine	6000	Washington
	only) BDR BDR 288 RYMES	5000	Westchester
	HTO BDR BDR 288 RYMES	6000	Westchester
	HTO V308 GON	9000	Westerly
	DPK V16 DIXIE V229 PANZE V44 SIE (Single Engine only)	6000	Wildwood
	 MAD V1 GRAYM	9000	Worcester
New York /Kennedy	 SAX V249 SBJ V30 ETX (Non jet/Non turboprop)	8000	Allentown
	 DIXIE V229 ACY (Props only)	6000	Atlantic City
	 DIXIE V1 HOWIE (Jets only)	8000	Atlantic City
	DIXIE V1 V308 OTT (Props only)	6000	Andrews AFB
	BDR HFD CLOWW (/E, /F, /G only)	10000	Augusta
	DIXIE V16 ENO V268 SWANN (Props only) BDR HFD CLOWW (/E, /F, /G only)	6000 10000	Baltimore Bangor
	BDR HFD CLOWW (/E, /F, /G only)	10000	Bar Harbor
		2000	Belmar
	 BDR MAD V475 V188 GON	9000	Block Island
	BDR V229 HFD V3 WOONS	9000	Boston
	BDR V229 HFD HFD053 DREEM	9000	Boston (Nort
	BDR HFD FOSTY WOONS (/E, /F, /G only)	10000	Boston
	BDR BDR014 JUDDS BDR (Jets only)	8000 10000	Bradley Bradley
		3000	Bridgeport
	BDR JUDDS (/E, /F, /G only)	10000	Burlington
	SAX V249 SBJ V30 ETX V162 HAR (Non jet/Non turboprop)	8000	Capital City
	 BDR HFD CLOWW (/E, /F, /G only)	10000	Concord
	DIXIE V1 LEEAH V268 BAL BAL294 KROLL AML (Non-pressurized aircraft only)	6000	Dulles
	BDR MAD MAD126 MONDI	9000	Groton
		3000	Hampton
	R/V CCC 232 CCC HTO	3000	
	 R/V CCC 232 CCC HTO BDR V229 HFD	9000	Hartford
	 BDR V229 HFD BDR V229 HFD V167 PVD V151 GAILS		
	 BDR V229 HFD BDR V229 HFD V167 PVD V151 GAILS R/V ILS 6 LOC (Text Info)	9000 9000 3000	Hartford Hyannis Islip
	 BDR V229 HFD BDR V229 HFD V167 PVD V151 GAILS	9000 9000	Hartford Hyannis

TOWER ENROUTE CONTROL

...... SAX V249 SBJ V30 ETX V162 V93 LRP (Props

Approach Control Area

New York/ LaGuardia

(Including Satellites)

..... BDR JUDDS WHATE (/E, /F, /G only) DIXIE V16 CYN

..... BDR HFD CLOWW (/E, /F, /G onlv) BDR MAD V475 V188 GON V374 MVY BDR MAD DIXIE V16 VCN (Props only) BDR MAD V475 V188 GON V58 NEWBE DEEPO COL V232 SBJ BDR MAD V475 V188 GON V374 MINNK DIXIE V1 (Props only) DIXIE V276 ARD DIXIE V16 CYN V312 OOD (Props only)

Route

..... Direct

...... DIXIE V16 CYN V312 OOD (Jets only)
...... BDR HFD CLOWW (/E, /F, /G only) jet/Non turboprop only)

...... BDR HFD CLOWW (/E, /F, /G only) BDR MAD V475 V188 GON (210 kts +) BDR MAD V475 V188 GON SAX V249 SBJ V30 ETX V39 FLOAT (Non

..... DIXIE V16 (Props only) DIXIE V1 (Props only)

..... DIXIE V1 V308 OTT (Props only) DPK V483 CMK

..... BDR MAD V475 V188 GON DIXIE V229 PANZE V44 SIE (Props only) DIXIE V1 HOWIE (Jets only) BDR MAD V1 GRAYM

..... SAX V249 SBJ V30 ETX DIXIE V229 ACY (Props only) DIXIE V1 HOWIE (Jets only) SAX V249 SBJ LANNA V30 ETX V39 LRP V93

..... JFK COL

..... BDR V229 HFD V3 WOONS

BAL (Props only) BDR HFD CLOWW (/E, /F, /G only) BDR HFD CLOWW (/E, /F, /G only) SAX V249 SBJ LANNA V30 ETX V39 LRP V499 BAL (Props only) BDR HFD CLOWW (/E, /F, /G only) BDR MAD V475 V188 GON

..... BDR BDR014 JUDDS

(Props only) BDR MAD MAD126 MONDI

..... BDR 248 CCC285 CCC

..... BDR 248 BDR HTO

..... BDR V229 HFD

..... DIXIE V16 CYN

..... BDR MAD

..... DPK

..... BDR (Jets only)

..... BDR V229 HFD HFD053 DREEM

...... BDR JUDDS (/E. /F. /G only)

..... BDR HFD FOSTY WOONS (/E, /F, /G only)

..... BDR 248 CCC285 PUGGS V229 BDR

...... SAX V249 SBJ V30 ETX V162 HAR

..... BDR HFD CLOWW (/E, /F, /G only)

..... BDR V229 HFD V167 PVD V151 GAILS

...... BDR JUDDS WHATE (/E, /F, /G only)

...... BDR JUDDS WHATE (/E, /F, /G only)

..... BDR MAD V475 V188 GON V374 MVY

..... BDR HFD CLOWW (/E, /F, /G only)

..... DIXIE V16 VCN (Props only)

...... SBJ SAX V249 V30 ETX V162 V93 LRP (Props

...... BDR MAD V475 V188 GON V58 NEWBE DEEPO

...... R/V BDR248 BDR. . .(Helicopter Route)

...... SAX V249 SBJ LANNA V30 ETX V39 ROBRT AML

Highest

Altitude

2000

8000

10000

6000

10000

9000

3000

6000

3000

9000

6000

10000

Destination

LaGuardia

Lancaster

Lebanon

McGuire

Millville

Newark

Norfolk

Nantucket

New Bedford

Philadelphia

N. Philadelphia

Manchester

Martha's Vinevard

Meriden Markham

Philadelphia Portland Portsmouth Reading

Providence Quonset Richmond Salisbury Washington Westchester Co Westerly Wildwood Wildwood Worcester Allentown

8000 6000 Atlantic City 2000 Atlantic City 8000 Andrews AFB 10000 Augusta 10000 Bangor 8000 Baltimore 10000 Bar Harbor 6000 Belmar

9000 Block Island 9000 Boston 9000 Boston (North) 10000 Boston 8000 Bradlev 10000 Bradley 5000 Bridgeport 5000 10000 Burlington

8000 Capital City 10000 Concord Dulles 8000

Bridgeport (Points NE

Groton

Hampton Hartford Hyannis

Islin

Keene

9000

5000

9000

9000

5000

5000

7000

10000

6000

9000 10000

5000

6000

10000

Kennedy Lancaster Lebanon McGuire Martha's Vineyard

Manchester Meriden Markham Millville 10000 Nantucket

Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination
(moraumy outomicos)		3000	Newark
	BDR MAD V475 V188 GON V374 MINNK	9000	New Bedford
	DIXIE V1 (Props only)	6000	Norfolk
	BDR HFD CLOWW (/E, /F, /G only)	10000	Portland
	BDR HFD CLOWW(/E, /F, /G only)	10000	Portsmouth
	BDR MAD V475 V188 GON BDR MAD V475 V188 GON	9000 9000	Providence Quonset
	SBJ SAX V249 V30 ETX V39 FLOAT	7000	Reading
	DIXIE V16 (Props only)	6000	Richmond
	DIXIE V1 (Props only)	6000	Salisbury
	 SAX V249 SBJ LANNA V30 ETX V39 LRP V499 BAL(Props only)	8000	Washington
	 	3000	Westchester
	DIXIE V229 PANZE V44 SIE (Props only)	6000	Wildwood
	DIXIE V1 HOWIE (Jets only)	8000	Wildwood
	 BDR MAD V1 GRAYM	9000	Worcester
New York/Newark	LANNA V30 ETX (Jets only)	8000	Allentown
	LANNA V30 ETX (Props only)	6000	Allentown
	DIXIE V229 ACY (Props only) DIXIE V1 HOWIE (Jets only)	6000 8000	Atlantic City Atlantic City
	BREZY V39 CMK V3 HFD CLOWW	10000	Augusta
	(/E, /F, /G only)		
	LANNA V30 ETX V39 LRP V499 BAL (Props only)	6000	Baltimore
	(Props 210 kts +) BREZY V39 CMK V3 HFD CLOWW	8000 10000	Bangor
	 (/E, /F, /G only)	10000	Dungor
	 BREZY V39 CMK V3 HFD CLOWW (/E, /F, /G only)	10000	Bar Harbor
		2000	Belmar
	BDR MAD V475 V188 GON (210 kts +)	9000	Block Island
	BREZY V39 CMK V3 HFD GON (- 210 kts)	9000	Block Island
	BDR V229 HFD HFD053 DREEM (210 kts +)	9000	Boston (North
	 BREZY V39 CMK V3 HFD HFD053 DREEM (-210 kts)	9000	Boston (North
	 BDR V229 HFD V3 WOONS (210 kts +)	9000	Boston
	 BREZY V39 CMK V3 WOONS (-210 kts)	9000	Boston
	BREZY V39 CMK V3 HFD FOSTY WOONS	10000	Boston
	(/E, /F, /G only)	40000	
	BDR (Jets only)	10000	Bradley
	BREZY V39 CMK V419 BRISS (Props only) BDR248 CCC285 V229 (All Jets)	9000 5000	Bradley Bridgeport
	BREZY V39 CMK V374 DENNA (All Props)	6000	Bridgeport
	BREZY V39 CMK SOARS JUDDS (/E, /F, /G	10000	Burlington
	only)	6000	Conital City
	LANNA V30 ETX V162 HAR (Props only) BREZY V39 CMK V3 HFD CLOWW	6000 10000	Capital City Concord
	(/E, /F, /G only)	10000	Concord
	BREZY V39 CMK	3000	Danbury
	LANNA V30 ETX V39 ROBRT AML (Props only)	6000	Dulles
	 (Props 210 kts +)	8000	
	SAX V213 HELON	4000	Dutchess Co
	DIXIE V1 (Props 210 kts +)	6000	Grand Strand
	BDR MAD MAD126 MONDI (+ 210 kts) BREZY V39 CMK V3 HFD GON (-210 kts)	9000 9000	Groton Groton
	BDR 248 BDR HTO (All Jets)	5000	Hampton
	BREZY V39 CMK V374 BETHA HTO (All Props)	6000	Hampton
	LANNA V30 ETX V162 HAR (Props only)	6000	Harrisburg In
	(Props 210 kts +)	8000	
	BDR V229 HFD (210 kts +)	9000	Hartford
	LANNA V30 ETX (Props only) (Props 210 kts +)	6000 8000	Hazleton Mur
	BREZY V39 CMK V3 HFD (-210 kts)	9000	Hartford
	BDR V229 HFD V167 PVD V151 GAILS (210	9000	Hyannis
	 kts +) BREZY V39 CMK V3 HFD V167 PVD V151	9000	Hyannis
	GAILS (- 210 kts) BDR 248 CCC285 CCC (All Jets)	5000	Islip
	 BREZY V39 CMK V374 DENNA BDR CCC (AII	6000	Islip

Approach Control Area	
(Including Satellites)	Route
	 BREZY V39 CMK SOARS JUDDS WHATE (/E, /F,
	/G only)

..... LANNA V30 ETX V39 LRP (Props only)

..... BREZY V39 CMK SOARS JUDDS WHATE (/E, /F,

..... BREZY V39 CMK V3 HFD CLOWW (/E, /F, /G

...... COL JFK (EWR Dep 22 & EWRS)

..... (Props 210 kts +)

/G only) (4)(5) LANNA V30 ETX

..... DIXIE V16 (Props only)

..... BDR MAD V475 V188 GON V374 MVY (210 kts +) BREZY V39 CMK V3 HFD GON V374 MVY (-210 kts) DIXIE V16 CYN BDR MAD

kts +)

..... DIXIE V1 (Props only)

..... BIGGY V3 MAZIE

..... SAX V213 HELON

..... (Props only)

only) SBJ BIGGY B3 MAZIE

kts)

..... (Props only)

...... (4) SBJ LANNA V30 ETX

...... DIXIE V16 (Props only)

..... (Props 210 kts +) DIXIE V1 (Props only)

..... SAX V213 HELON

..... BIGGY V3 MAZIE

kts) STUBY V487 CANAN

..... STUBY V93 CON

..... STUBY V93 ENE

..... BREZY

New York/Stewart

..... SAX SAX022 MANEE

..... BREZY V39 CMK V374 BETHA HTO

...... DIXIE V229 PANZE V44 SIE (Props only)

..... BREZY V39 CMK V3 HFD V1 GRAYM (-210

NE. 23 SEP 2010 to 18 NOV 2010

..... BREZY V39 CMK V374 DENNA

...... BDR MAD V1 GRAYM (210 kts +)

...... Dixie V1 Howie (Jets only)

..... STUBY V93 CON V39 AUG

...... (4) BIGGY V3 MAZIE

...... (4) BIGGY V3 MAZIE

..... (Props only)

...... (2) BREZY V39 CMK V3 YALER DIXIE V16 VCN (Props only) BREZY V39 CMK V374 BETHA HTO BREZY V39 CMK V3 HFD V58 NEWBE DEEPO BDR MAD V475 V188 GON V374 MINNK (210 BREZY V39 CMK V3 HFD V167 PVD (-210 kts)

..... BREZY V39 CMK V3 HFD CLOWW (/E, /F, /G

...... BREZY V39 CMK V3 HFD CLOWW (/E, /F, /G

...... BDR MAD V475 V188 GON (210 kts+)

...... BDR MAD V475 V188 GON (210 kts +)

..... BREZY V39 CMK V3 HFD V167 PVD (-210

..... BREZY V39 CMK V3 HFD V167 PVD (- 210

...... DIXIE V16 RIC V157 LVL V155 (Props only)

...... LANNA V30 ETX V39 LRP V93 BAL (Props only)

4000

6000

4000

4000

8000

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4000 6000

6000

8000

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6000

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9000

9000

10000

10000

10000

10000

Highest

Altitude

10000

5000

4000

6000

8000

10000

8000

6000

10000

9000

Destination

Kennedy

Kennedy

Lancaster

Lebanon

Lynchburg RgnI/Preston Glenn

Manchester

FId

Lehigh Valley Intl

Martha's Vineyard

Keene

Martha's Vinevard McGuire Meriden Meriden Millville Montauk Nantucket

New Redford New Bedford New Castle Co Norfolk Orange Co

Northeast Philadelphia Philadelphia Intl Portland Portsmouth Pottstown Limerick Providence Providence

Quonset Quonset

Spaatz Fld

Raleigh-Durham Intl Reading Rgnl/Carl A Richmond Ronald Reagan Washington Natl

Salisbury Stewart Intl Sullivan Co Intl The Francis S Gabreski Arpt Trenton Mercer

Waterbury-Oxford Westchester Co.

Wildwood

Wildwood

Worcester

Worcester

Albany

Augusta

Bangor

Bar Harbor

STUBY CFF CEFORS DREEM	474		TOWER ENROUTE CONTROL		
PWL HPU 73 WOONS	Approach Control Area (Including Satellites)		Route	_	Destination
PWL PWL111 BRISS or PWL V106 BAF (BAF/CEF) STUBY V487 CAM 10000 Burlington STUBY V487 CAM 10000 Concord Concord PWL HFD GON 10000 Groton PWL HFD GON 10000 Forton PWL HFD V151 FAILS 10000 Hyannis STUBY V93 ERN 10000 Hyannis STUBY V93 ERN 10000 Hyannis STUBY V93 ERN 10000 Marthaster PWL HFD V374 MVY 10000 Marthaster PWL HFD V374 MVY PWL HFD V375 PWD 10000 Portland PWL HFD V375 PWD V374 MVY 10000 Portland PWL HFD V375 PWD V374 MVY 10000 Portland PWL HFD V375 PWD V374 MVY 10000 Providence PWL V106 BAF 10000 PWL V106 BAF					
GBAF_CEF STUBY V437 CAM 10000 Burlington STUBY V437 CAM 10000 Concord Concord PWL HPV V437 CAM 10000 Concord PWL HPV V437 CAM 10000 Concord PWL HPV V457 PVD V151 GAILS 10000 Hartford Hyannis STUBY 10000 Keene STUBY 93 EFN 10000 Keene STUBY 93 EFN 10000 Keene STUBY 93 EFN 10000 Manchester Marthas Vineyark PWL HPD V374 MVY PWL HPD V374 MVY PWL HPD V374 MVY PWL HPD V38 BNEWBE DEPO 10000 Moreoach PWL HPD V38 DEPO 10000 Portsmouth PWL HPD V38 DEPO 10000 Portsmouth PWL HPD V38 DEPO 10000 Portsmouth PWL HPD V36 PVD V151 GAILS 10000 Portsmouth PWL HPD V36 PVD V151 GAILS 10000 Provincetown WEARD DNY 10000 Provincetown PWL HPD V36 PVD V151 GAILS 10000 Provincetown WEARD DNY 10000 Provincetown PWL V106 BAF 10000 Worcester 10000 PWL HPD V36 PVD V351 GAILS 10000 Provincetown PWL V36 PVD V351 GAILS 10000 Allantic City 10000 PWC V36 PVD V					
STUBY V487 CAM STUBY V487 CAM STUBY V487 CAM STUBY V38 CON PWL PWL11 BRISS PWL PWL11 BRISS STUBY PWL PWL PWL 757 MWY PWL PWL 757 MWY PWL PWL 758 REWBE DEEPO PWL Y100 AMAINEAST STUBY PWL PWL Y36 ERWS PWL Y36 FRWS PWL Y37 STUBY PWL PWL Y37 AWY PWL PWL Y37 AWY PWL PWL Y37 FWL Y35 FWL Y35 FWL Y36				10000	Bradley
STUBY V93 CON				10000	Rurlington
PWL PWL 151 BRISS					
### STUBY 1,0000 Hyannis STUBY 1,0000 Homes STUBY 1,0000 Heene STUBY 1,0000 Heene STUBY 93 EEN 1,0000 Harbester PWL HFD V374 MVY 1,0000 Marchester PWL HFD V374 MVY 1,0000 Marchester PWL HFD V39 KDWBD EDEPO 1,0000 Nantucket PWL HFD V39 EEN 1,0000 Portland Portland PWL Y106 RAYMY 1,0000 Portland PWL Y106 RAYMY 1,0000 Portland PWL HFD V167 PWD V151 GAILS 1,0000 Provincetown WEARD DWY 1,0000 PWL HFD V167 PWD V151 GAILS 1,0000 Provincetown PWL Y106 RAYMY 1,0000 PWL Y106 RA			PWL HFD GON	10000	Groton
STUBBY 1,0000 Lebanon STUBBY 1,0000 Lebanon Lebanon Marchaster 1,0000 Moreode 1,0000 Marchaster 1,0000 M					
STUBY 93 EEN 1,0000 Manchester PVL HFD V374 MVY 1,0000 Manchester PVL HFD V374 MVY 1,0000 Manchester PVL HFD V39 KEWBE DEEPO 1,0000 Manthester PVL HFD V39 KEWBE DEEPO 1,0000 Manthester PVL HFD V39 KEWBE DEEPO 1,0000 Nantucket PVL V106 RAYMY 1,0000 Portland PVL V106 RAYMY 1,0000 Portland PVL V106 RAYMY 1,0000 Providence PVL HFD V167 PVD V151 GAILS 1,0000 Providence PVL V106 BAF 1,0000 PVC V106 BAF 1,0000					
STUBP V93 EEN					
PWL HFD VSB NEWBE DEEPO					
PPUL HFD V3 WOONS 10000 Norwood					Marthas Vineyard
STUBY V93 EEN 10000 Portsmouth PVL 1470 RAYMY 10000 Portsmouth PVL HED V167 PVD V151 GAILS 10000 Provindence PVL HED V167 PVD V151 GAILS 10000 Provindence PVL HED V167 PVD V151 GAILS 10000 Syracuse Vew York/ CMK V39 SOARS V487 CANAN 10000 Albany Mestchester HUU V162 FIC 5000 Allentown Miles V1000 DIXIE V192 ACY (Props only) 5000 Allentown CMK V3 HED V229 GDM V39 CON 10000 Allentockin CMK V3 HED V229 GDM V39 CON 10000 Allentockin CMK V3 HED V229 GDM V39 CON 10000 Allentockin CMK V3 HED V229 GDM V39 LRP V499 8000 Baltimore BAL (Props only) 6000 Allentockin CMK V3 HED V229 GDM V39 LRP V499 8000 Baltimore BAL (Props only) 6000 CMK V3 HED CLOWW (FE, FF, /G only) 10000 Bar Harbor CMK V3 HED V229 GDM V106 ENE 10000 Bar Harbor FFK COL CMK V3 HED V229 GDM V106 ENE 10000 Bar Harbor FFK COL CMK V3 HED V229 GDM V106 ENE 10000 Boston CMK V3 HED POSTS WOONS 10000 Boston CMK V3 HED FOSTS WOONS (FE, FF, /G only) 10000 Boston CMK V3 HED FOSTS WOONS (FE, FF, /G only) 10000 Boston CMK V3 HED FOSTS WOONS (FE, FF, /G only) 10000 Boston CMK V3 HED FOSTS WOONS (FE, FF, /G only) 10000 Boston 10000 Boston 10000 Boston 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 1000000 100000 100000 1000000 100000 100000 100000 1000000 100000 1000000 1000000 1000000 100000000					
PWL V106 RAYMY					
PWL HFD V167 PVD V151 GAILS					
WEARD DNY			PWL HFD V167 PVD	10000	Providence
New York					
New York					
HUO V162 FIC			I WE VIOO BAI	10000	Wordester
DIXIE V229 ACV (Props only) B000 Atlantic City DIXIE V14 HOWIE (Jets Only) B000 Atlantic City CMK V3 HFD LOWW (/E, /F, /G only) 10000 Augusta SXX V249 SB1 LANNA V30 ETX V39 LRP V499 B000 Baltimore BAL (Props only) CMK V3 HFD LOWW (/E, /F, /G only) 10000 Bangor CMK V3 HFD LOWW (/E, /F, /G only) 10000 Bar Harbor BAL (PROPS only) 10000 Bar Harbor CMK V3 HFD LOWW (/E, /F, /G only) 10000 Bar Harbor CMK V3 HFD LOWW (/E, /F, /G only) 10000 Bar Harbor Belmar 10000 Boston Soston & NO SA' SA' (SA' (SA' (SA' (SA' (SA' (SA' (SA'	New York/				Albany
DIXIE V1 HOWIE (Jets Only)	Westchester				
CMK V3 HFD V229 GDM V39 CON 10000 Augusta CMK V3 HFD CLOWW (/E, /F, /G only) 10000 Baltimore BAL (Props only) 8000 Baltimore CMK V3 HFD V229 GDM V39 AUG 10000 Bangor CMK V3 HFD CLOWW (/E, /F, /G only) 10000 Bard Farbor CMK V3 HFD V229 GDM V106 ENE 10000 Bard Harbor JFK COL 6000 Belmar CMK V3 HFD HFD053 DREEM 10000 Boston & NO SA* (3) CMK V3 WOONS 10000 Boston CMK V3 HFD FOSTY WOONS (/E, /F, /G only) 10000 Boston CMK V31 HFD FOSTY WOONS (/E, /F, /G only) 10000 Bridgeport CMK V39 SOARS V487 BTV 10000 Burlington CMK V39 SOARS V487 BTV 10000 Burlington HUO V162 HAR 5000 Capital City CMK V3 HFD CLOWW (/E, /F, /G only) 10000 Capital City CMK V3 HFD GON 10000 Concord CMK V3 HFD GON 10000 Concord CMK V3 HFD GON 10000 Concord CMK V3 HFD CLOWW (/E, /F, /G only)<					
CMK V3 HFD CLOWW (/E, /F, /G only) 10000					
SAX V249 SBJ LANNA V30 ETX V39 LRP V499 B000 Baltimore					
CMK V3 HFD V29 GDM V39 AUG 10000 Bangor CMK V3 HFD CLOWW (/E, /F, /G only) 10000 Bar Harbor CMK V3 HFD CLOWW (/E, /F, /G only) 10000 Bar Harbor CMK V3 HFD V229 GDM V106 ENE 10000 Belmar CMK V3 HFD HFD053 DREEM 10000 Boston & NO SA' (3) CMK V3 WOONS 10000 Boston CMK V3 HFD FOSTY WOONS (/E, /F, /G only) 10000 Boston CMK V31 HFD FOSTY WOONS (/E, /F, /G only) 10000 Bridgeport CMK V31 HFD FOSTY WOONS (/E, /F, /G only) 10000 Bridgeport CMK V31 HFD CONDOUS (/E, /F, /G only) 10000 Burlington CMK V33 SOARS V487 BTV 10000 Burlington CMK V3 HFD V229 GDM V39 CON 10000 Capital City CMK V3 HFD V229 GDM V39 CON 10000 Concord CMK V3 HFD U229 GDM V29 CON 10000 Concord CMK V3 HFD CLOWW (/E, /F, /G only) 10000 Concord CMK V3 HFD CLOWW (/E, /F, /G only) 10000 Groton CMK V3 HFD GON 10000 Groton CMK V3 HFD U367 FVD V151 GAILS <td< td=""><td></td><td></td><td></td><td>8000</td><td></td></td<>				8000	
CMK V3 HFD CLOWW (/E, /F, /G only) 10000 Bar Harbor CMK V3 HFD V229 GDM V106 ENE 10000 Bar Harbor JFK COL 6000 Belmar JFK COL 6000 Beston & NO SA' (3) CMK V3 HFD HFD053 DREEM 10000 Boston & NO SA' (3) CMK V3 HD FDSTY WOONS (/E, /F, /G only) 10000 Boston CMK V3 HFD FOSTY WOONS (/E, /F, /G only) 10000 Boston CMK V3 HD FOSTY WOONS (/E, /F, /G only) 10000 Bridgeport CMK V3 HD V162 HAR 5000 Bridgeport CMK V3 HD V229 GDM V39 CON 10000 Burlington CMK V3 HFD V229 GDM V39 CON 10000 Concord CMK V3 HFD CLOWW (/E, /F, /G only) 10000 Concord CMK V3 HFD CLOWW (/E, /F, /G only) 10000 Groton CMK V3 HFD GON 10000 Groton CMK V3 HFD U352 HANA V30 ETX V39 ROBRT AML (Props only) Hampton CMK V3 HFD V354 FD 10000 Hampton CMK V3 HFD V357 PVD V151 GAILS 10000 Harford CMK V3 HFD V259 GDM 10000 Harford </td <td></td> <td></td> <td></td> <td>40000</td> <td></td>				40000	
CMK V3 HFD CLOWW (/E, /F, /G only) 10000 Bar Harbor CMK V3 HFD V229 GDM V106 ENE 10000 Bar Harbor JFK COL 6000 Belmar CMK V3 HFD HFDD53 DREEM 10000 Boston & NO SA' (3) CMK V3 WOONS 10000 Boston CMK V3 HFD FOSTY WOONS (/E, /F, /G only) 10000 Bradley CMK V3 HFD FOSTY WOONS (/E, /F, /G only) 10000 Bradley CMK V3 HFD CLOWN (/E, /F, /G only) 10000 Burlington CMK V3 SOARS V487 BTV 10000 Burlington CMK V3 AFD CLOWW (/F, /F, /G only) 10000 Capital City CMK V3 HFD V229 GDM V39 CON 10000 Concord CMK V3 HFD CLOWW (/F, /F, /G only) 10000 Concord CMK V3 HFD GON 10000 Groton CMK V3 HFD GON 10000 Groton CMK V3 HFD GON 10000 Hartford CMK V3 HFD V167 PVD V151 GAILS 10000 Hartford CMK V3 HFD V229 GDM 10000 Keene CMK V3 HFD V229 GDM 10000 Keene CMK V3 HFD V229 GDM V151 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
CMK V3 HFD V229 GDM V106 ENE					
CMK V3 HFD HFD053 DREEM					
(3) CMK V3 WOONS					
CMK V3 HFD FOSTY WOONS (/E, /F, /G only) 10000 Boston					
CMK V419 BRISS 10000 Bridgeport CMK V374 DENNA 5000 Bridgeport CMK V39 SOARS V487 BTV 10000 Burlington CMK SOARS JUDDS (/E, /F, /G only) 10000 Burlington HUO V162 HAR 5000 Capital City CMK V3 HFD CLOWW (/E, /F, /G only) 10000 Concord CMK V3 HFD CLOWW (/E, /F, /G only) 10000 Concord SAX V249 SBJ LANNA V30 ETX V39 ROBRT AML 8000 Dulles (Props only) CMK V3 HFD CLOWW (/E, /F, /G only) 10000 Goncord CMK V3 HFD GON 10000 Groton Hampton CMK V3 HFD GON 10000 Harpton Harpton CMK V3 HFD U167 PVD V151 GAILS 10000 Hyannis CMK V3 HFD V167 PVD V151 GAILS 10000 Hyannis CMK V3 HFD V229 GDM 10000 Keene CMK V3 HFD V229 GDM 3000 Lacladral CMK V3 HFD V229 GDM 3000 Keene CMK V3 HFD V229 GDM V151 10000 Lebanon CMK V3 HFD V229 GDM V154 10000 Lebanon <					
CMK V39 SOARS V487 BTV					
CMK SOARS JUDDS (/E, /F, /G only)			CMK V374 DENNA	5000	Bridgeport
HUO V162 HAR					
CMK V3 HFD V229 GDM V39 CON					
CMK V3 HFD CLOWW (/E, /F, /G only)					
(Props only) CMK V3 HFD GON CMK V3 HFD GON CMK V3 HFD 10000 Hampton CMK V3 HFD 10000 Hartford CMK V3 HFD V167 PVD V151 GAILS 10000 Hyannis CMK V3 HFD V167 PVD V151 GAILS 10000 Hyannis CMK V3 HFD V229 GDM 10000 Keene CMK V3 HFD V229 GDM 10000 Keene CMK V3 HFD V229 GDM 3000 Kennedy DIRECT 3000 Lancaster CMK V3 HFD V229 GDM V151 10000 Lebanon CMK V3 HFD V229 GDM V151 10000 Lebanon CMK SOARS JUDDS WHATE (/E, /F, /G only) 10000 Lebanon CMK V3 HFD V229 GDM V16 MHT 10000 Manchester CMK V3 HFD V229 GDM V16 MHT 10000 Manchester CMK V3 HFD V229 GDM V16 MHT 10000 Manchester CMK V3 HFD V229 GDM V16 MHT 10000 Manchester CMK V3 HFD CLOWW (/E, /F, /G only) 10000 Martha's Vineyar DIXIE V16 CYN 6000 Milliville CMK V3 HFD V58 NEWBE DEEPO 10000 Nantucket CMK V3 HFD V58 NEWBE DEEPO 10000 New Haven NYACK V188 SAX (Props) 4000 Newark NYACK V188 SAX (Props) 5000 Newark DIXIE V1 (Props only) 6000 Norfolik CMK V3 WOONS 10000 Portland					
CMK V3 HFD GON				8000	Dulles
				10000	Croton
CMK V374 DENNA BDR CCC 5000 Islip					
CMK V483 DPK 3000 Kennedy					
DIRECT 3000					
CMK V3 HFD V229 GDM V151 10000 Lebanon CMK SOARS JUDDS WHATE (/E, /F, /G only) 10000 Lebanon CMK V3 HFD V229 GDM V106 MHT 10000 Manchester CMK V3 HFD CLOWW (/E, /F, /G only) 10000 Manchester CMK V3 HFD GON V374 MVY 10000 Martha's Vineyar DIXIE V16 CYN 6000 McGuire Dixie V16 VCN (Props only) 6000 Milliville CMK V3 HFD V58 NEWBE DEEPO 10000 Nantucket CMK V374 DENNA 5000 New Haven NYACK V188 SAX (Props) 4000 Newark NYACK V188 SAX (Jets) 5000 Newark DIXIE V1 (Props only) 6000 Norfolk CMK V3 WOONS 10000 Norwood & N SA' CMK V3 HFD V229 GDM V106 ENE 10000 Portland					
CMK V3 HFD V229 GDM V106 MHT 10000 Manchester					
CMK V3 HFD GON V374 MVY 10000 Martha's Vineyar DIXIE V16 CYN 6000 McGuire Dixie V16 VCN (Props only) 6000 Milliville CMK V3 HFD V58 NEWBE DEEPO 10000 Nantucket CMK V374 DENNA 5000 New Haven NYACK V188 SAX (Props) 4000 Newark NYACK V188 SAX (Jets) 5000 Newark DIXIE V1 (Props only) 6000 Norfolk CMK V3 WOONS 10000 Norwood & N SA' CMK V3 HFD V229 GDM V106 ENE 10000 Portland					
DIXIE V16 CYN 6000 McGuire			CMK V3 HFD CLOWW (/E, /F, /G only)	10000	Manchester
Dixie V16 VCN (Props only) 6000 Millville					Martha's Vineyard
DIXIE V1 (Props only) 6000 Norfolk					
CMK V3 HFD V229 GDM V106 ENE 10000 Portland					
NE 23 SEP 2010 to 18 NOV 2010					
NE 23 SEP 2010 to 18 NOV 2010					
		N	E. 23 SEP 2010 to 18 NOV 2010		

Highest

Altitude

10000

10000

10000 10000

10000

7000

6000

8000

6000

10000

6000

8000

10000

9000

9000

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4000

8000

Destination

Portsmouth Portsmouth

Providence

Reading

Richmond

Salisbury

Syracuse

Wildwood

Ronald Reagan

Washington Natl

Provincetown

Portland

(Including Satellites)	Route
	 CMK V3 HFD CLOWW (/E, /F, /G only)
	 CMK V3 HFD V229 GDM V106 RAYMY
	 CMK V3 HFD CLOWW (/E, /F, /G only)
	 CMK V3 HFD V167 PVD
	 CMK V3 HFD V167 PVD V151 GAILS

only)

...... SAX V249 SBJ V30 ETX V39 FLOAT (Props DIXIE V16 (Props only) SAX V249 SBJ LANNA V30 ETX V39 LRP V93 BAL (Props only)

Approach Control Area

Norfolk

Patuxent

Philadelphia

Pittsburgh

..... DIXIE V1 (Props only) HAAYS HUO V273 SYR DIXIE V229 PANZE V44 SIE (Props only) DIXIE V1 HOWIE (Jets only) CMK V3 HFD V1 GRAYM

..... HCM V33 COLIN V16 PXT HPW V260 RIC (West-bound only) CCV V1 SBY CCV V139 SWL (Northeast-bound only) HCM HCM330 SVILL

..... SWL V139 PXT V16 V44

..... SBY V1 V44

..... SBY332 BAL133 PXT V93 SBY V29 ENO PXT V16 ENO PXT V16 SBY VI ATR PXT V213 V286 FLUKY COLIN V33 HCM SBY V1 CCV

..... SWL V139 CCV

..... WHINO V33 V286 STEIN PXT V213 ENO V29 D00 SBY V29 DQ0 PXT V16 SBY V1 JAMIE HCM COLIN V33 HCM PXT V31 OTT (No Overflight of D.C. Area) SBY CHURK OTT (No Overflight of D.C. Area)

..... RV FJC185 FJC OOD VCN V184 ACY

..... MXE V378 BAL DQO V166 V378 BAL

..... 00D V157 ENO DQ0 V29 ENO MXE V408 ROBRT AML

..... MXE MXE334 HUMEL

...... DQO V166 V93 BAL

..... BSV (Westbound only)

...... V37 (Southbound only)

..... MXE V408 VINNY V93 BAL

..... RV FJC185 FJC V149 RITTY

..... EWC V37 (Northbound only)

..... RV FJC185 FJC BWZ SAX V39 BREZY

..... REGLE V3 SBJ

..... MXE V184 MXE283027 V469 HAR PNE PNE090 ARD126 V16 DIXIE (Direct) (Single Engine only)

...... PNE PNE090 ARD126 V16 V276 ZIGGI (Direct) (No Single Engine) RBV V123 PROUD (Jets only) MXE MXE295 HABER LRP137 LRP ARD V214 METRO (Non Turbojets only) RBV RBV005 OWBIE (Turbojet only)

NE. 23 SEP 2010 to 18 NOV 2010

5000 8000 4000 5000 7000 Newark

4000

4000

8000

8000

5000

5000

8000

8000

8000

6000 5000

LaGuardia Lancaster Newark

Reading

Teterboro

Washington

Washington

Akron-Canton

Clarksburg

Erie

Westchester Co.

Wilkes Barre/Scranton

Harrisburg Kennedy Kennedy

Dulles

Dover AFB Dover AFB

Worcester Patuvent River Richmond Salisbury Snow Hill Washington

Atlantic City

Raltimore

Baltimore

Dover AFB

Dover AFB

Dover AFB

Dover AFB

Dulles

6000 Newport News

Norfolk

Norfolk

Norfolk

Philadelphia

Philadelphia

Richmond

Richmond

Richmond

Washington

Washington

Allentown

Baltimore

Baltimore

Atlantic City

Wildwood

Atlantic City Atlantic City

Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination
	 EWC (Northbound only)	6000	Franklin
	EWC TDT (Northbound only)	6000	Jamestown
	DIRECT (Southbound only)	8000	Morgantown
	 EWC (Northbound only)	8000	Youngstown
Portland	 CON CAM	10000 10000	Albany Bangor
		10000	Bar Harbor
	ENE LWM	10000	Bedford & NO SATS
	(3) ENE PSM PSM221 STEVO LWM	10000	Boston
	 (5) ENE V167 SCUPP	10000	Boston
	ENE V106 GDM V229 WITNY	10000	Bradley
	CLOWW WITNY (/E, /F, /G only)	10000	Bradley
	ENE V106 GDM V229 HFD	10000	Bridgeport
	CLOWW WITNY HFD (/E, /F, /G only) (3) ENE V106 GDM V229 HFD V1 MAD V475	10000 10000	Bridgeport Danbury
	 BDR BDR288 RYMES	10000	Danbury
	 (3) CLOWW WITNY HFD V1 MAD V475 BDR	10000	Danbury
	 BDR288 RYMES (/E, /F, /G only) ENE V106 GDM V14 ORW V16 DPK	10000	Farmingdale
	 ENE V106 GDM V14 ORW GON	10000	Groton
	ENE V106 GDM V229 HFD	10000	Hartford
	CLOWW WITNY HFD (/E, /F, /G only)	10000	Hartford
	ENE V106 CDM V14 ODW V16 CCC	10000	Hyannis
	ENE V106 GDM V14 ORW V16 CCC ENE V106 GDM V14 ORW V16 DPK	10000 10000	Islip Kennedy
	ENE V139 TONNI	10000	Marthas Vineyard
	ENE V139 TONNI	10000	Nantucket
	 (1) ENE V106 GDM V229 SEALL V188 CMK V623 SAX	10000	Newark & SATS
	 (3) ENE V106 GDM V3 CMK V623 SAX	10000	Newark & SATS
	(1) CLOWW WITNY HFD V229 V188 CMK V623 SAX (/E, /F, /G only)	10000	Newark & SATS
	 (3) CLOWW WITNY HFD V3 CMK V623 SAX (/E, /F, /G only)	10000	Newark & SATS
	 CLOWW WITNY HFD (/E, /F, /G only)	10000	New Haven
	(1) ENE V106 GDM V14 ORW V16 V276 ARD	10000	N.E. Philadelphia
	 ENE V106 GDM V14 ORW V308 MANTA V276 ARD	10000	N.E. Philadelphia
	 ENE LWM	10000	Norwood
	 ENE V139 BURDY	10000	Providence
	ENE V139 TONNI	10000	Provincetown
	ENE V93 STUBY V205 TRESA	10000	Stewart
	CLOWW WITNY HFD (/E, /F, /G only)	10000	Waterbury-Oxford White Plains
	 (3) CLOWW WITNY HFD V1 MAD V475 BDR BDR288 RYMES (/E, /F, /G only)	10000	white Plains
	 ENE V106 GDM V229 SPENO	10000	Worcester
Portland/Augusta	CON CAM	10000	Albany
		10000	Bangor
		10000	Bar Harbor Bedford & NO SATS
	(3) ENE PSM PSM 221 STEVO LWM	10000 10000	Boston
	(5) ENE V167 SCUPP	10000	Boston
	LABEL V39 GDM V229 WITNY	10000	Bradley
	CLOWW WITNY (/E, /F, /G only)	10000	Bradley
	LABEL V39 GDM V229 HFD	10000	Bridgeport
	CLOWW WITNY HFD (/E, /F, /G only)	10000	Bridgeport
	LABEL V39 CON	10000	Concord
	 (3) LABEL V39 GDM V229 HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
	 (3) CLOWW WITNY HFD V1 MAD V475 BDR	10000	Danbury
	BDR288 RYMES (/E, /F, /G only) LABEL V39 GDM V14 ORW V16 DPK	10000	Farmingdale
	LABEL V39 GDM V14 ORW V10 DPK	10000	Groton
	LABEL V39 GDM V229 HFD	10000	Hartford
	CLOWW WITNY HFD (/E, /F, /G only)	10000	Hartford
	ENE V139 TONNI	10000	Hyannis
	LABEL V39 GDM V14 ORW V16 CCC LABLE V39 GDM V14 ORW V16 DPK	10000 10000	Islip Kennedy

...... (1) LABEL V39 GDM V229 SEALL V188 CMK

...... (1) CLOWW WITNY HFD V229 V188 CMK V623

...... (3) CLOWW WITNY HFD V3 CMK V623 SAX (/E,

...... (1) LABEL V39 GDM V14 ORW V16 V276 ARD

..... LABEL V39 GDM V14 ORW V308 MANTA V276

............ (3) LABEL V39 GDM V3 CMK V623 SAX

SAX (/E, /F, /G only)

..... LABEL V39 STUBY V205 TRESA

..... LABEL V39 GDM V229 SPENO

............ (1) ORW V16 JFK V229 WOONS BOS PSM ENE

...... HFD PWL V106 WEETS HU0 V162

...... CLOWW WITNY HFD (/E, /F, /G only)

...... (3) CLOWW WITNY HFD V1 MAD V475 BDR

BDR288 RYMES (/E, /F, /G only)

...... CLOWW WITNY HFD (/E, /F, /G only)

..... ENE MHT

..... ENE LWM

..... PUT ALB

..... ENE V139 BURDY

..... ENE V139 TONNI

..... ENE

..... ENE V139 TONNI

..... ENE V139 TONNI

V623 SAX

/F, /G only)

(Including Satellites)

Providence

WOUNS BUS PSIVI EINE
 (1) ORW V16 ENO V268 SWANN
 WOONS BOS PSM ENE BGR
 WOONS BOS PSM ENE
 WOONS
 (3) WOONS
 (5) PVD V151 INNDY
 PVD V405 BDL
 HFD
 PUB ALB V14
 PUT V151 GDM V229
 WOONS MHT CON
(3) HFD V1 MAD V475 BDR BDR288 RYMES
(5) PUT BAF IGN V157 HAARP
 (1) ORW V16 ENO
PUT CTR V270
PUT CTR V270
 SEY HTO V46 DPK
 HFD
PVD V151 GAILS
SEY HTO V46 CCC
PUT V151 GDM
SEY HTO V46 DPK
PVD V167 HFD V1 MAD V475
PUT V151
 PVD V167 TUTOR
(1) ORW V16 CYN
PVD PVD143 CLAMY
 (1) PVD V167 HFD V229 SEALL V188 CMK
V623 SAX
(3) PVD V167 HFD V3 CMK V623 SAX
(1) ORW V16 DIXIE V276 ARD
(1) ORW V16 VCN OOD
WOONS BOS PSM ENE WOONS BOS
PVD V151 GAILS
(1) ORW V16
PUT ALB
PVD V405 BDL V205 TRESA PUT ALB
(1) ORW V16 DIXIE V276 ARD
 (1) OUM ATO DIVIE AS LO WLD
 NE. 23 SEP 2010 to 18 NOV 2010

	10000	Atlantic City
	10000	Augusta
N	10000	Baltimore
	10000	Bangor
	10000	Bar Harbor
	10000	Bedford & NO SATS
	10000	Boston
	10000	Boston
	10000	Bradley
	10000	Bridgeport
	10000	Buffalo
	10000	Burlington
	10000	Concord
R288 RYMES	10000	Danbury
	10000	Danbury
	10000	Dover AFB
	10000	Elmira
	10000	Erie

10000

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10000 10000 Lebanon 10000 Manchester 10000 Marthas Vineyard

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10000 Farmingdale

Hartford

Hvannis

Islip

Keene

Kennedy LaGuardia

McGuire AFB

Newark & SATS

Newark & SATS

N.E. Philadelphia

Norwood & SO SATS

Nantucket

New Haven

Portsmouth

Richmond

Rochester

Stewart

Syracuse 10000 Trenton

Provincetown

10000 Philadelphia

Portland

Highest

Altitude

10000

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5000

Destination

Manchester

Nantucket

Marthas Vineyard

Newark & SATS

Newark & SATS

Newark & SATS

Newark & SATS

N.E. Philadelphia

New Haven

10000 N.E. Philadelphia

Norwood

Stewart

White Plain

Worcester

Alhany

Portsmouth

Providence

Provincetown

Waterbury-Oxford

Allentown/Harrisburg

Approach Control Area		Highest	
(Including Satellites)	Route	Altitude	Destination
		10000	Waterbury-Oxford
	SEY HTO V46 CCC PVD V167 HFD V1 MAD V475 BDR BDR288	10000 10000	Westhampton Beach White Plains
	 RYMES	10000	Willie Flams
	 HFD PWL V106 LHY	5000	Wilkes-Barre
		10000	Worcester
Providence/Groton	 GON BAF V146	10000	Albany
	HFD PWL V106 WEETS HUO V162	5000	Allentown/Harrisburg
	(1) GON V374 CREAM V16 JFK V229	10000	Atlantic City
	ORW V16 BOS PSM ENE (1) GON V374 CREAM V16 ENO V268 SWANN	10000 10000	Augusta
	ORW V16 BOS PSM ENE BGR	10000	Baltimore Bangor
	ORW V16 BOS PSM ENE	10000	Bar Harbor
	ORW V16 WOONS	10000	Bedford & NO SATS
	 (3) ORW V16 WOONS	10000	Boston
	(5) PVD V151 INNDY	10000	Boston
		10000	Bradley
	GON V374 CREAM	10000	Bridgeport
	GON BAF V146 ALB V14 ORW V14 GDM V229	10000 10000	Buffalo Burlington
	ORW V14 GDM V229 ORW V16 WOONS MHT CON	10000	Concord
	(3) GON V374 CREAM BDR BDR288 RYMES	10000	Danbury
	 (5) ORW BAF IGN V157 HAARP	10000	Danbury
	(1) GON V374 CREAM V16 ENO	10000	Dover AFB
	GON CTR V270	10000	Elmira
	GON CTR V270 GON V374 CREAM V16 DPK	10000	Erie
		10000 10000	Farmingdale Hartford
	PVD V151 GAILS	10000	Hyannis
	GON V374 V16 CCC	10000	Islip
	 ORW V14 GDM	10000	Keene
	GON V374 CREAM V16 DPK	10000	Kennedy
	GON V374 CREAM BDR V475	10000	LaGuardia
	ORW V14 GDM V151 ORW V16 WOONS	10000 10000	Lebanon Manchester
	GON V374 MVY	10000	Marthas Vineyard
	(1) GON V374 CREAM V16 CYN	10000	McGuire AFB
	GON V58 NEWBE DEEPO	10000	Nantucket
	 (1) GON HFD V229 SEALL V188 CMK V623 SAX	10000	Neward & SATS
	(3) GON HFD V3 CMK V623 SAX	10000	Newark & SATS
	GON V374 CREAM	10000	New Haven
	(1) GON V374 CREAM V16 DIXIE V276 ARD ORW V16 WOONS	10000 10000	N.E. Philadelphia Norwood & SO SATS
	(1) GON V374 CREAM V16 VCN OOD	10000	Philadelphia
	ORW V16 WOONS BOS PSM ENE	10000	Portland
	ORW V16 WOONS BOS	10000	Portsmouth
	PVD V151 GAILS	10000	Provincetown
	(1) GON V374 CREAM V16	10000	Richmond
	GON BAF V146 ALB	10000	Rochester
	GON BDL V205 TRESA GON BAF V146 ALB	10000 10000	Stewart Syracuse
	(1) GON V374 CREAM V16 DIXIE V276 ARD	10000	Trenton
	GON V374 CREAM	10000	Waterbury-Oxford
	 GON V374 V16 CCC	10000	Westhampton Beach
	GON V374 CREAM BDR BDR288 RYMES	10000	White Plains
	HFD PWL V106 LHY	5000	Wilkes-Barre
	 ORW V14 GRAYM	10000	Worcester
Reading	 FTX	3000	Allentown
ricading	BOYER V12 HAR	4000	Harrisburg
		4000	Lancaster
	 FJC BWZ	5000	Newark
		5000	No.Philadelphia
	MXE 355 BUNTS	5000	Philadelphia
	 MXE V29 DQ0	5000 5000	Wilkes-Barre Wilmington
	 MINE ASS DAO	5000	willingtoll
Richmond	 V286 STEIN	5000	Norfolk
	V33 HCM	6000	Norfolk
	V38 HCM	9000	Norfolk

Highest

Altitude

Destination

(Including Satellites)	Route	Altitude	Destination
	 V16	5000	Patuxent River NAS
	 V33	5000	Patuxent River
	 V376	8000	Washington
	 V155	4000	Washington
	 BRV	5000	Washington
Roanoke	 PSK V45	7000	Greensboro
	 V103	10000	Greensboro
Rochester	 V31 V14	10000	Albany
	 V119 GEE V252	8000	Binghamton
	 V2	10000	Buffalo
	 V119 GEE V464 DKK V14 MENTO	10000	Cleveland
	 V119 GEE V464	10000	Dunkirk
	 V147	8000	Elmira
	 V119 GEE V464 DKK V14	10000	Erie
	 V34 BEEPS	8000	Ithaca
	 V2 BUF V115	6000	Jamestown
	 V119 GEE V464 LANGS V115	10000	Jamestown
	 V510 EHMAN	10000	Niagara Falls
	 V119 GEE V464 DKK V14 ERI V37 (Overflight traffic only)	10000	Pittsburgh
		10000	Curacuas
	V119 GEE V464 DKK V14 ERI V43	10000	Syracuse Youngstown
	 VII9 GEE V404 DNN VI4 ENI V43	10000	Tourigstown
Syracuse	 VESPE V14 ALB	10000	Albany
	 V483 SHERB V14 ALB GDM V431 LOBBY	10000	Bedford
	 V29	6000	Binghamton
	V483 SHERB V14 ALB GDM V431 REVER	10000	Boston
	 ALB	10000	Bradley
	 RKA V433 PETER V270 ATHOS V44 DENNA	10000	Bridgeport
	 (3) RKA V433 TRESA V123 HAARP	10000	Danbury
	 V35	8000	Elmira
	 V29 V428	8000	Elmira
	 ALB V130 BDL GON	10000	Groton
	 ALB	10000	Hartford
	 ALB V130 BDL V405 PVD V151 GAILS	10000	Hyannis
	 ALB V130 BDL V405 MVY	10000	Marthas Vineyard
	ALB V130 BDL V405 MVY	10000	Nantucket
	 V483 SHERB V14 ALB GDM V431 LOBBY	10000	Norwood
	 CAM CON	10000	Portland

..... CAM CON ALB V130 BDL V405 PVD 10000 Providence 10000

Route

Approach Control Area

(Including Satellites)

Washington

Wilkes-Barre

..... ALB V130 BDL V405 PVD V151 GAILS V14 ALB V130 MOLDS

..... DIRECT DIRECT

...... V265 EMI V419 MXE ARD V214 METRO

..... V265 V265 V457 LRP (-180 kts only) DIRECT V123 V433 DQ0 V155 COATT

..... BRV V286 Westchester (See New York/Westchester)

...... V613 FJC BWZ (Non jets only)

...... V613 FJC BWZ (Jets only)

..... V147

..... HZL RAV

..... V36 V106 SEG V31

..... V93

..... V164 ETX V29 V149

..... BAL V378 MXE V3 SBJ TEB (-180 kts only) V499

8000

8000

8000

6000

5000

6000

6000

10000

10000

4000

3000

5000

7000

3000

7000

8000

6000

5000 Richmond Teterboro Allentown Binghamton Binghamton 8000

Binghamton Elmira Elmira Harrisburg Harrisburg Lancaster Newark Newark

Reading

Provincetown

Rochester

Worcester

Baltimore

Harrisburg

Patuxent River NAS

Philadelphia

Richmond

Richmond

Dulles

Newark

5000 Lancaster

480 NORTH AMERICAN ROUTES

NORTH AMERICAN ROUTES FOR NORTH ATLANTIC TRAFFIC (NAR)

- "NORTH AMERICAN ROUTE PROGRAM (NRP)." Introduction
- harmonize and adopt common procedures, to the extent possible, for application to random route flight operations at and above FL 290 within the conterminous U.S. and Canada. (b) The NRP will be implemented through various phases with the end goal of allowing all international and domestic flight operations to participate in the NRP throughout the conterminous U.S., Alaska, and Canada.

(a) The North American Route Program (NRP) is a joint FAA and NAV CANADA program, the objective of which is to

- (c) Flights may participate in the NRP under specific guidelines and filing requirements:
 - 1. provided the flight originates and terminates within conterminous U.S. and Canada; or.
 - 2. for North Atlantic international flights operating within the North American Route (NAR) System.

FAA/NAV CANADA Common Procedures

(d) Flight planning requirements are:

- The following common FAA and NAV CANADA procedures apply:

 - (a) Flights to operate at or above FL 290.
- (b) For that portion of flight within 200 NM of the departure or destination airport, flights shall be filed and operated via
- Standard Instrument Departures (SID), Departure Procedures (DP), Standard Terminal Arrival Routes (STAR) or published Preferred IFR Routes. If none of the above are available, airways may be used. a 200 NM radius of both the departure and destination airports.
- 1. routes shall contain at least one significant point in each delegated area of airspace jurisdiction for each FAA Air Route Traffic Control Center (ARTCC) or Canadian FIR/CTA; 2. significant points may be a navigational aid or waypoint defined in fix-radial distance (FRD) format from a navigational aid. Within Canadian airspace a significant point may also be a coordinate described in degrees and minutes

(c) NRP flights are not normally subject to routing restrictions such as published Preferred IFR Routes or airways, beyond

- of latitude/longitude; 3. for routes that cross the U.S./Canadian border, a significant point within 30 NM of either side of the border shall be
 - 4. significant points should be filed for all turnpoints;

(f) Unless published routing restrictions are in effect, North Atlantic International flights planning to operate within the NAR System may file NRP routes beyond 200 NM of the NAR identified system airport and the published Inland Navigation

- 5. route(s) shall avoid active Class F airspace;
- 6. "NRP" shall be entered in the Remarks section of the flight plan; and
- 7. flight plans to be filed at least one hour prior to departure.
- (e) In the event that a NRP aircraft has to be recleared due to weather or tactical reasons, ATC will attempt to return the
- aircraft to the original NRP routing as soon as practical. Aircraft that depart from the NRP routing due to a pilot request or
- Fixes (INFs). Specific FAA Requirements

an ATC clearance authorizing a direct routing will be considered as a non participant of the NRP.

The following specific FAA requirements apply:

- (a) Flights may not be filed via a DP/STAR within offshore transition areas (12 NM or more off the U.S. shoreline).
- (b) Flights may be filed and flown on the complete transition of DPs and/or STARs for specific airports in lieu of the 200

- NM route planning requirement described in Common Procedures, paragraph "b" above. For listing of the airports refer to
- the current FAA Advisory Circular-NRP.
 - (c) Flights not meeting the above guidelines are to be requested through the FAA nonpreferred route programs. Those

GENERAL

NORTH AMERICAN ROUTE (NAR) SYSTEM

- a. The objectives of the NAR System are as follows: 1. To expedite flight planning.
- 2. To reduce the complexity of route clearances and thereby minimize the confusion and error potential inherent in

lengthy transmissions and readbacks; and

Some routes have a common portion only.

- 3. To minimize the time spent in the route clearance delivery function.
- b. The NAR System is designed to accommodate major airports in North America where the volume of North Atlantic

requests will be approved/disapproved on a workload permitting basis.

- (NAT) traffic and route complexity dictate a need to meet the above objectives. It is for the use of traffic
- entering/exiting the NAT and consists of a series of pre-planned routes from/to coastal fixes and identified system
- airports. Most of the routes are divided into two portions: 1. Common Portion: That portion of the route between specified coastal fix and a specified inland navigation fix (INF).
- 2. Non-common Portion: That portion of the route between a specified INF and a system airport. The routes are within the high level airspace structure with a transition to/from system airports.

NORTH AMERICAN ROUTES

c. The routes are prefixed by the abbreviation "N" with the numbering for the common portions orientated geographically from south to north. The ODD numbers have eastbound applications while the EVEN numbers apply to westbound. Following a one- to three-digit number, an alpha character indicates the validation codes and forms part of the route

481

identifier. Validation codes are associated to amendments to the common routes only and not to non-common route portions. d. Since a primary function of the NAR system is to compliment the NAT traffic flow; a limited number of NAR routes, appropriate for the coastal fixes serving the organized OTS and the domestic traffic organization, are included in the daily

- NAT/OTS message published by the Gander and Shanwick Oceanic Area Centers. e. Aircraft can only join the NAR system:
 - 1. At an identified coastal fix: or
 - 2. On departure from one of the identified system airports; or 3. At an identified INF.

FLIGHT PLANNING-GENERAL

Westbound

a. Westbound routes begin at the coastal fixes, thence along common route portions to an INF and then fan out along non common routes to selected system airports;

- b. For aircraft proceeding to an identified system airport and the route of flight to destination is described by a single NAR designator, use the designator;
- c. For aircraft proceeding to a non system airport but the route of flight is described by the common route portion to an identified INF, use the designator to the INF followed by a detailed routing to the destination.

Fasthound

- a. Eastbound routes only have a common portion from the INF to a coastal fix;
- b. When the route of flight is described by a single NAR designator, use the designator;
- c. For aircraft departing from a non system airport, file via an appropriate detailed routing to the applicable INF and

thence via the common portion to the coastal fix using the NAR designator; General

For those cases not described above, a detailed routing is required.

NAR REQUIREMENT

a. Generally there is no requirement to flight plan and operate using the NAR system. However ATC requires eastbound

aircraft intending to operate on the NAT OTS and operating wholly on or south of a line between the intersections BAREE and DOTTY to flight plan and operate using one of the NARs published on the daily OTS Message. b. NARs may be assigned by air traffic control for the tactical management of air traffic in Canadian domestic airspace.

- c. For operators who elect not to use the NAR system, the rules of the NRP apply.

- ROUTE CLEARANCES

- a. For aircraft operating within the NAR System, the ATC routing clearance and pilot readback will be indicated by the NAR designator, e.g., "North American Route 105B";
- b. For aircraft operating in the NAR System, but only using the common route portion, the ATC routing clearance and pilot readback will be indicated by the NAR designator followed by the detailed routing; c. For aircraft not operating in the NAR System, the ATC routing clearance and pilot readback will be via a detailed route;
 - d. Aircraft cleared to a system airport via a NAR designator are to follow the common and the non-common portion of the
- route to a system airport. If either the common or non-common portion of the issued NAR is incompatible or unacceptable, the pilot is to advise ATC accordingly.

NORTH AMERICAN ROUTES DOCUMENTATION

- a. It is expected that the following NAR documentation will be carried on the flight deck of each aircraft operating within the NAR system: 1. The current publications of NAV CANADA Canadian Flight Supplement; or Federal Aviation Administration
- Airport/Facility Directory Northeast U.S. (AFDNE); or another product which provides the current NAR; and
 - b. Changes to the NAR routes are advertised in the monthly publication Notices to Airmen Publication (NTAP).
 - COMMON PROCEDURES FOR RADIO COMMUNICATIONS FAILURE

- a. The following procedures are intended to provide general guidance for North Atlantic (NAT) aircraft experiencing a communications failure. These procedures are intended to complement and not supersede state procedures/regulations. It
- is not possible to provide guidance for all situations associated with a communications failure.
 - 1. If so equipped, the pilot of an aircraft experiencing a two-way radio communications failure shall:
 - i. operate the secondary radar transponder on identity Mode A) Code 7600 and Mode C; and

ii. attempt to contact any ATC facility or another aircraft and inform them of the difficulty and request they relay

- 1. If operating with a received and acknowledged oceanic clearance, the pilot shall enter oceanic airspace at the
- information to the ATC facility with whom communications are intended.
 - b. Communications failure prior to entering NAT oceanic airspace
- cleared oceanic entry point, level and speed and proceed in accordance with the received and acknowledged oceanic
- clearance. Any level or speed changes required to comply with the oceanic clearance shall be completed within the vicinity

2. the information in the current NAT/OTS message.

- of the oceanic entry point. 2. If operating without a received and acknowledged oceanic clearance, the pilot shall enter oceanic airspace at the
- first oceanic entry point, level and speed, as contained in the filed flight plan and proceed via the filed flight plan route to
- landfall. That first oceanic level and speed shall be maintained to landfall.
 - c. Communications failure prior to exiting NAT oceanic airspace
 - 1. Cleared on flight plan route
- The pilot shall proceed in accordance with the last received and acknowledged oceanic clearance to the last specified
- oceanic route point, normally landfall, then continue on the flight plan route. Maintain the last assigned oceanic level and
- speed to landfall. After passing the last specified oceanic route point, conform with the relevant State

Inland Navigation

Facility/Fix

SIE

SIE

MANTA

MANTA

VITOI

ALLEX

VITOL

WHALE

EBONY

VITOL

WHALE

KANNI

MIILS

WHALE

KANNI

BRADD

MIIIS

KANNI

BRADD

- procedures/regulations.

 - 2. Cleared on other than flight plan route
- The pilot shall proceed in accordance with the last received and acknowledged oceanic clearance to the last specified
- oceanic route point, normally landfall. After passing this point, rejoin the filed flight plan route by proceeding directly to the
- next significant point ahead of the track of the aircraft as contained in the filed flight plan. Where possible use published
- ATS route structures, then continue on the flight plan route. Maintain the last assigned oceanic level and speed to the last
- specified oceanic route point. After this point conform with the relevant State procedures/regulations.

 - NORTH AMERICAN ROUTES (NAR)
- The following listing divides the NAR Route descriptions into two sections according to the direction of flight (eastbound or westbound). Each section is subdivided according to the route portion (common or non-common). The common portion
- describes the NAR route between the Coastal Fix and the Inland Navigational Facility/Fix. The non-common portion
- describes the route between the NAR route system airport being used and the Inland Navigational Facility/Fix.
- NAR
- Designator N5B
- N7A N13C
- N15B N17B
- N19B
- N210
- N23E
- N25B N27A N29B N31E N33C N35A N37B N39A
- NA1C N43A N45B
 - NE. 23 SEP 2010 to 18 NOV 2010

- Direct Direct Direct Direct
 - Direct Direct Direct

COMMON PORTION (EASTBOUND)

OWENZ LINND R56 KENDA

Route Description

OWENZ LINND R56

B24 LYNUS

B24 LYNUS

Direct

Direct

LOMPI

LOMPI

LOMPI

NANSO

NANSO

NANSO

Coastal Fix

SLATN

SLATN

JOBOC

JOBOC

CARAC

CARAC

JAROM

JAROM

JAROM

RAFIN

RAFIN

RAFIN

BANCS

BANCS

BANCS

BANCS

BANCS

COLOR

COLOR

NORTH AMERICAN ROUTES

Route Description

Direct

NAR

Designator N47A

N49A

N51B

N53B

N55B

N57B

N59A

N61B

N63B

N65B

N67B

N75B

N77B

N79B

N81B

N83B

N85A

N91B

N93B

N95B

N97B

N99A

N105B

N183C

N185A

N193F

N195C

N197C

N209B

N211C

N225B

N227B

Inland Navigation

Facility/Fix

TUSKY

MIIIS

KANNI

BRADD

TUSKY

ALLEX

MIILS

BRADD

TUSKY

ALLEX

MIILS

BRADD

TUSKY

ALLEX

EBONY

MIILS

CEFOU

TUSKY

ALLEX

EBONY

MIILS

CEFOU

TUSKY

YBG

MIIIS

TAFFY

OUBIS

TAFFY

OUBIS

TAFFY

QUBIS

RΙ

Coastal Fix

COLOR

COLOR

YYT

YYT

YYT

YYT

YYT

VIXUN

VIXUN

VIXUN

VIXUN

YQX

YQX

INTOOD	1001(1	Direct
N107B	ALLEX	Direct
N109B	EBONY	Direct
N111B	TOPPS	Direct
N113B	MIILS	Direct
N115B	BAREE	Direct
N121B	ALLEX	Direct
N123A	EBONY	Direct
N125A	TOPPS	Direct
N127A	MIILS	Direct
N129B	BAREE	Direct
N135B	EBONY	Direct
N137B	TOPPS	Direct
N139C	TAFFY	Direct
N141B	BAREE	Direct
N149B	TOPPS	Direct
N151E	MIILS	Direct
N153C	TAFFY	Direct
N155A	ANCER	Direct
N161E	TOPPS	Direct
N163E	MIILS	Direct
N165E		Direct
N167E	QUBIS	Direct
N169A	ANCER	Direct
N171A	YBG	Direct
N173B	TOPPS	Direct
N175C	MIILS	Direct
N177C	TAFFY	Direct
N179C	QUBIS	Direct
N181E	ANCER	Direct
	N107B N109B N111B N113B N115B N121B N122B N125A N127A N129B N137B N139C N141B N149B N151E N153C N155A N161E N163E N165E N167E N169A N171A N173B N173B N173C N171C	N107B ALLEX N109B EBONY N111B TOPPS N113B MIILS N115B BAREE N121B ALLEX N123A EBONY N125A TOPPS N127A MIILS N129B BAREE N135B EBONY N137B TOPPS N139C TAFFY N141B BAREE N149B TOPPS N151C TAFFY N153C TAFFY N153C TAFFY N153C TAFFY N161E TOPPS N163E MIILS N165E TAFFY N165E TAFFY N169A ANCER N171A YBG N173B TOPPS N175C MIILS N177C TAFFY N179C QUBIS

Direct

Direct

Direct

Direct

Direct

Direct

Direct

Direct

Direct

YQX YQX YQX YQX CYMON CYMON CYMON CYMON CYMON DOTTY

> DOTTY DOTTY DOTTY DOTTY DOTTY YAY YAY YAY YAY YAY REDBY REDBY REDBY REDBY STEAM STEAM **STEAM** STEAM VALIE VALIF VALIE VALIE VALIE VALIE FOXXE FOXXE FOXXE FOXXE FOXXE

FOXXE

FOXXE

HΩ

НΟ

НΟ

YDP

YDP

LOMTA

LOMTA

Coastal Fix

SLATN

SLATN

JOBOC

JOBOC

DOVEY

CARAC

CARAC

CARAC

CARAC

CARAC

JAROM

JAROM

JAROM

YQX

CYMON

CYMON

CYMON

CYMON

DOTTY

DOTTY

DOTTY

DOTTY

DOTTY

YAY

YAY

YAY

YAY

YAY

REDBY

REDBY

REDBY

REDBY

REDBY

STEAM

STEAM

STEAM

Designator

N10A

N12R

N14A

N16A

N18C

N36E

N38E

N40E

N42B

N44B

N46F

N48E

NSOF

N1300

N142B

N144R

N146B

N148B

N160C

N162B

N164B

N168B

N170E

N180B

N184B

N186C

N188B

N190C

N200B

N202B

N204B

N206C

N208F

N220B

N224E

N228B

COMMON PORTION (WESTBOUND) NAR

Route Description

Direct

Direct

Direct

Direct

Direct

Direct

Direct

Direct

Direct

LOMPI

LOMPI

LOMPI

197

Inland Navigation

BERGH

LACKS

BERGH

SAILE

SAILE

VITOL

WHALE

KANNI

BRADD

TOPPS

WHALE

KANNI

BRADD

MIILS

ALLEX

FRONY

TOPPS

MIILS

ALLEX

TOPPS

MIILS

COVAN

ALLEX

TOPPS

TOPPS

ALLEX

TOPPS

TAFFY

COVAN

TOPPS TAFFY

YRI

YRI

YRI COVAN

YXU

Facility/Fix

	NOOL	JARON	LOIVII I	טוואטט
ı	N52E	JAROM	LOMPI	TUSKY
ı	N54E	JAROM	LOMPI	TOPPS
ı	N56E	RAFIN	NANSO	VITOL
ı	N58B	RAFIN	NANSO	WHALE
ı	N608	RAFIN	NANSO	KANNI
ı	N62A	RAFIN	Direct	BRADD
ı	N64C	RAFIN	Direct	TUSKY
ı	N66C	BANCS	Direct	MIILS
ı	N68C	BANCS	Direct	VITOL
ı	N70B	BANCS	Direct	WHALE
ı	N72B	BANCS	Direct	KANNI
ı	N74B	BANCS	Direct	BRADD
ı	N76A	BANCS	Direct	TUSKY
ı	N78A	BANCS	Direct	MIILS
ı	N80B	COLOR	Direct	WHALE
ı	N82B	COLOR	Direct	KANNI
ı	N84B	COLOR	Direct	BRADD
ı	N86B	COLOR	Direct	TUSKY
ı	N88A	COLOR	Direct	MIILS
ı	N94A	YYT	Direct	KANNI
ı	N96A	YYT	Direct	BRADD
ı	N98A	YYT	Direct	TUSKY
ı	N100B	YYT	Direct	ALLEX
ı	N102B	YYT	Direct	MIILS
ı	N112B	VIXUN	Direct	TUSKY
ı	N114C	VIXUN	Direct	ALLEX
ı	N116A	VIXUN	Direct	MIILS
ı	N118A	VIXUN	Direct	MIILS
ı	N124B	YQX	Direct	TUSKY
ı	N126B	YQX	Direct	ALLEX
	N128B	YQX	Direct	EBONY

Direct

BOBBS

Direct

YRI

YRI

YRI

TOPPS TAFFY

COVAN

MOFAT

YBC

SYR

MT

TAFFY

OUBIS

COVAN

MOFAT

YRC

SYR

485

NAR			
Designator	Coastal Fix	Route Description	
N230E	STEAM	YRI	
N240C	VALIE	Direct	
N242B	VALIE	Direct	
N248C	VALIE	Direct	

VALIE

VALIE

VALIF

VALIE

FOXXE

FOXXE Direct **FOXXE** Direct YBC YRI FOXXE FOXXE SPOTE ROBBE SPOTE ROBBE MOFAT YOW J559

YBC YRI

ROBBE

Direct

Direct Direct Direct YBC YRI

FOXXE HO HO HO HO HO HΩ

FOXXE

HO HΩ

N250F

N254A

N258A

N260A

N264A

N268B

N270B

N272E

N276A

N326B

N3280

N332C

N334E

N338C

N344B

N346A

N352C

N354C

N356C

N358B

N362B

N372C

N374C

N376C

N378F

N382H

N386G

N392F

N396C

N398B

N402E

N412B

N414C N424E

N428C

N432B

N434C

N464F

N468F

N472E

N484C

N492B

N494C

N496C N512C

N514C

N516H

N528A

* NOTE:

N284B N288C N292C N294E N296E N3020 N3060 N308F

N312A HΩ N322B YDP

LOMTA

LAKES

LAKES

LAKES

LAKES

LAKES

LAKES

LOPVI

LOPVI

LOPVI

RODBO

ELSET

RODBO

RODBO

JELCO

JELCO

JELCO

FEDDY

UTC (DT 1000 UTC) Mon unless declared active by NOTAM.

N280A N282A

KELVI MT YIIY

Direct

Direct

Direct

YMX

YKI

Direct

Direct

Direct

Direct

YMX

TEALS

KI IPS

COPUR

Direct

YBC YRI

YKL ROBBE

HINGE TEALS

MCKEE GELLS

YBC YRI

J583 YWK

BROME NOWAA

YKL ROUND CANSO

TEALS VANSI STAFE

KLIPS MT YOW J559

PELSI SOCAN VETRO

SEMTO HENDY YOW J559

Routes through Bagotville (YBG) Military Advisory Areas (CYAs) only available from 2300 UTC (DT2200 UTC) Fri to 1100

NE. 23 SEP 2010 to 18 NOV 2010

SEMTO VEPTU PEMLU

VANSI YOW J559

GW PELEE YXZ

HELMO YMO JARRO

SEMTO HENDY

SPOTE ROBBE SPOTE ROBBE MOFAT YOW J559 Direct

BROME NOWAA YOW MT J559

JOVIE HENDY SELBO CANSO

YKL ROBBE MOFAT YOW J559

MCKEE GELLS MT YOW J559

HINGE TEALS MOFAT YOW J559

MCKEE MEMSO GRAMP LORNE

J583 YWK MOFAT YOW YUL J559

ROBBE MOFAT YOW J559

TAFFY OUBIS YBC COVAN SYR* MOFAT SYR MT SSM

TAFFY **QUBIS** YBC COVAN*

COVAN

MOFAT

SYR*

MT

SYR

SYR

ROUND

SSM

SSM

TAFFY

QUBIS

COVAN

COVAN

MOFAT

VANSI

SYR

SSM

TAFFY

SYR

SYR

SSM

MT

SYR

SSM

SYR

SSM

SYR

SSM

SSM

VANSI

ROUND

MT

MOFAT

SYR*

YBC

486

Inland Navigation

ALLEX

BERGH

BERGH

BERGH

BERGH

BRADD

BRADD

BRADD

BRADD

BRADD

BRADD

BRADD

BRADD

BRADD

BRADD

BRADD

NORTH AMERICAN ROUTES NON-COMMON PORTION (WESTBOUND)

VIA ALLEX

Facility/Fix	Non-Common Portion	Destination
ALLEX	EMJAY J174 ATR085 radial ATR V308 OTT	ANDREWS
ALLEX	ENE BAF J77 PTW J48 MOL FLCON Arrival	ATLANTA
ALLEX	ENE NELIE J75 MXE V378 BAL	BALTIMORE
ALLEX	SCUPP	BOSTON
ALLEX	EMJAY J174	CHARLESTON, SC
ALLEX	ENE NELIE J75 CMK J75 GVE LYH Sudsy Arrival	CHARLOTTE
ALLEX	ENE BAF J77 SAX J6 LIT BYP	DALLAS/FT. WORTH
ALLEX	SEAER J79 LFV J174 HTO J121 SIE	DOVER
ALLEX	ENE BAF J77 SAX J6 LRP Delro Arrival	DULLES
ALLEX	EMJAY J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival	FT. LAUDERDALE
ALLEX	ENE BAF J77 PTW J48 MOL J22 VUZ JAN AEX Daisetta Arrival	HOUSTON
ALLEX	ENE Parch Arrival	KENNEDY
ALLEX	SEAER J79 LFV J174 HTO J121 DRIFT V312 CYN	MCGUIRE
ALLEX	EMJAY J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival	MIAMI
ALLEX	HANAA ALB V213 SAX	NEWARK
ALLEX	EMJAY J174 ORF J121 CHS J79 OMN Bitho Arrival	ORLANDO
ALLEX	SEAER J79 LFV J174 HTO J121 BRIGS VCN Cedar Lake Arrival	PHILADELPHIA
ALLEX	ENE CTR HNK HNK271 radial J190 SLT Grace Arrival	PITTSBURGH
ALLEX	EMJAY J174 SWL Argal Arrival	RALEIGH-DURHAM
ALLEX	ENE BAF J77 SAX J80 VHP Vandalia Arrival	ST LOUIS

VIA BERGH

TAMPA

DOVER

DULLES

KENNEDY

MCGUIRE

PHILADELPHIA

Destination

ANDREWS

BALTIMORE

CHARLOTTE

CHARLESTON, SC

DALLAS/FT, WORTH

FT. LAUDERDALE

ATLANTA

BOSTON

DOVER

DULLES

HOUSTON

KENNEDY

MCGUIRE

Destination

Inland Navigation Facility/Fix **Non-Common Portion** BERGH L454 OWENZ DRIFT J121 SIE

L454 OWENZ CAMRN

L454 J62 RBV RBV289 radial V457 LRP V143 MULRR AML

L454 OWENZ V139 BRIGS V577 VCN Cedar Lake Arrival

VIA BRADD

Inland Navgation

Non-Common Portion

Facility/Fix

BRADD LFV J174 ATR085 radial ATR V308 OTT BRADD

BOS J77 PTW J48 MOL FLCON Arrival

L454 OWENZ MANTA V276 GAMBY

ENE NELIE J75 CMK J75 TAY Dades Arrival

BOS J75 MXE V378 BAL SCUPP

LFV J174 BOS J75 CMK J75 GVE LYH Sudsy Arrival

BOS J77 SAX J6 LIT BYP

LFV J174 HTO J121 SIE

PLYMM Parch Arrival

- BOS J77 SAX J6 LRP Delro Arrival
- ACK J62 RIFLE J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival BOS J77 PTW J48 MOL J22 VUZ JAN AEX Daisetta Arrival
- LFV J174 HTO J121 DRIFT V312 CYN

Destination

PHILADELPHIA

RALEIGH-DURHAM

PITTSBURGH

Destination

ANDREWS

BALTIMORE

CHARLOTTE

CHARLESTON SC

ΔΤΙ ΔΝΤΔ

NAIANAI

NEWARK

ORI ANDO

ST. LOUIS

TAMPA

NORTH AMERICAN ROUTES Inland Navgation

BRADD BOS CTR HNK HNK271 radial J190 SLT Grace Arrival BRADD ACK J62 RIFLE J174 SWL Argal Arrival BOS J77 SAX J80 VHP Vandalia Arrival BRADD BRADD BOS J75 CMK J75 TAY Dades Arrival

VIA COVAN

Non-Common Portion

Non-Common Portion

BOS BAF Shaff Arrival

Inland Navigation

Facility/Fix

COVAN

Facility/Fix

BRADD

BRADD

BRADD

BRADD

Inland Navigation Facility/Fix

EBONY

EBONY

FRONY

EBONY

FRONV

FRONY

FRONY

EBONY

FRONY

EBONY

FRONY

FRONY

FRONY

EBONY

EBONY

EBONY

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EBONY

EBONY

EBONY

EBONY

ALB J37 JFK CYN SIE

HANAA ALB V213 SAX ALR DNY SLATT Arrival

EMJAY J174 ATRO85 radial ATR V308 OTT

ENE BAF J77 PTW J48 MOL FLCON Arrival

ENE NELIE J75 CMK J75 GVE LYH Sudsy Arrival

SEAER J79 LFV J174 HTO J121 DRIFT V312 CYN

EMJAY J174 ORF J121 CHS J79 OMN Bitho Arrival

ENE BAF J77 SAX J80 VHP Vandalia Arrival

ENE NELIE J75 CMK J75 TAY Dades Arrival

ENE CTR HNK HNK271 radial J190 SLT Grace Arrival

EMJAY J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival

ENE BAF J77 PTW J48 MOL J22 VUZ JAN AEX Daisetta Arrival

EMJAY J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival

SEAER J79 LFV J174 HTO J121 BRIGS VCN Cedar Lake Arrival

NE. 23 SEP 2010 to 18 NOV 2010

ENE NELIE J75 MXE V378 BAL

ENE BAF J77 SAX J6 LIT BYP

SEAER J79 LFV J174 HTO J121 SIE

ENE BAF J77 SAX J6 LRP Delro Arrival

COVAN ALB PWL CMK J75 TAY DADES Arrival

Non-Common Portion

SCUPP

FMIAY I174

ENE Parch Arrival

HANAA ALB V213 SAX

EMJAY J174 SWL Argal Arrival

COVAN COVAN COVAN COVAN COVAN

ALB IGN IGN Arrival

ALB DNY LHY V93 LVZ V147 MAZIE ALB PWL CMK J75 CAE J51 SAV J103 OMN HILEY Arrival ALB PWL CMK J75 CAE J75 DUNKN AMG LEESE Arrival

ALB J49 HNK HNK271 radial J190 SLT GRACE Arrival

OMN FISEL Arrival COVAN COVAN

ALB 16 LRP DELRO Arrival

ALB J6 SAX J6 LIT BYP Arrival ALB J6 SAX J77 PTW J48 EMI J61 HUBBS J193 WEAVR J121 CHS J79

COVAN COVAN

COVAN COVAN COVAN COVAN COVAN COVAN

ALB J37 J75 MXE V378 BAL ALB PWL CMK J75 MXE V378 BAL ALB J6 SAX J77 PTW J48 EMI J61 HUBBS J193 WEAVR J121 CHS ALB PWL CMK J75 GVE LYH SUDSY Arrival

ALB J6 SAX J77 PTW J48 ODF FLCON Arrival

LFV J150 HTO J174 ORF J121 CHS J79 OMN Bitho Arrival

LEV J174 HTO J121 BRIGS VCN Cedar Lake Arrival

VIA FRONY

ACK J62 RIFLE J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival

DALLAS/FT. WORTH DOVER **DULLES** FT. LAUDERDALE KENNEDY MCGUIRE MIAMI NEWARK ORI ANDO ΡΗΙΙ ΔΠΕΙ ΡΗΙΔ PITTSBURGH ΤΔΜΡΔ

Destination

ANDREWS

BALTIMORE

CHARLOTTE

CHARLESTON, SC

DALLAS/FT.WORTH

FT. LAUDERDALE

ATLANTA

BOSTON

DOVER

DULLES

HOUSTON

KENNEDY

MCGUIRE

NEWARK

ORLANDO

ST. LOUIS

TAMPA

PHILADELPHIA

RALEIGH-DURHAM

PITTSBURGH

MIAMI

400	NOVIU WHEKICAN KOOIES
	VIA KANNI
Inland Navigation	

ation	

LFV J174 HTO J121 SIE

PLYMM Parch Arrival

BOS BAF Shaff Arrival

Non-Common Portion

197 ACK SCUPP

Non-Common Portion

Daisetta Arrival

St. Louis route useable only for aircraft at or above FL350.

ATENE CATOG Catog Arrival

YMX J546 V300 YS0 J37

BOS J77 SAX J6 LRP Delro Arrival

LFV J174 HTO J121 DRIFT V312 CYN

ACK J62 RIFLE J174 SWL Argal Arrival

BOS J77 SAX J80 VHP Vandalia Arrival

ENE BAF J77 PTW J48 MOL FLCON Arrival

YMX J546 YSO J597 YOO V464 Spica Arrival

VLV J509 V352 OMBRE Ombre Arrival

YXI YEE ECK GIJ RBS Vandalia Arrival

YMX J546 YSO J558 YXU J545 DJB J83 APE Cince Arrival

YMX J546 YSO J558 YXU J545 DJB J29 PXV J131 LIT BYP

YMX J546 YSO J558 YXU J545 DJB J29 PXV J131 LIT J180 DAS

NE. 23 SEP 2010 to 18 NOV 2010

YOW J553 ECK FNT PAITN Arrival

BOS J75 CMK J75 TAY Dades Arrival

KANNI	LFV J174 ATR085 radial ATR V308 OTT	ANDREWS
KANNI	BOS J77 PTW J48 MOL FLCON Arrival	ATLANTA
KANNI	BOS J75 MXE V378 BAL	BALTIMORE
KANNI	SCUPP	BOSTON

ACK J62 RIFLE J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival

ACK J62 RIFLE J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival

VIA LACKS

2 IIIM AIV

Facility/Fix Non-Common Portion

LFV J174

CHARLOTTE

DOVER

DULLES

HOUSTON

KENNEDY

MCGUIRE

NEWARK

ORI ANDO

ST.LOUIS

TAMPA

PHILADELPHIA

RALEIGH-DURHAM

PITTSBURGH

Destination

Destination

ATLANTA

CHICAGO

DETROIT

HOUSTON

ST. LOUIS*

TORONTO

CINCINNATI

DALLAS/FT. WORTH

MONTREAL/TRUDEAU

MONTREAL/MIRABEL

BOSTON

MIAMI

Destination

CHARLESTON, SC DALLAS/FT. WORTH

FT. LAUDERDALE

KANNI

Inland Navigation Facility/Fix

Inland Navigation Facility/Fix

LACKS

MIILS

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MIIIS

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MIILS

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MIILS

MIILS

MIILS

* NOTE:

KANNI KANNI KANNI KANNI

BOS J75 CMK J75 GVE LYH Sudsy Arrival BOS J77 SAX J6 LIT BYP

BOS J77 PTW J48 MOL J22 VUZ JAN AEX Daisetta Arrival

LFV J150 HTO J174 ORF J121 CHS J79 OMN Bitho Arrival

LFV J174 HTO J121 BRIGS VCN Cedar Lake Arrival

BOS CTR HNK HNK271 radial J190 SLT Grace Arrival

Destination

MCGUIRE

ORLANDO

ST. LOUIS

TORONTO

TAMPA

PHILADELPHIA

PITTSBURGH

MONTREAL/MIRABEL

MONTREAL/TRUDEAU

MIAMI

NORTH AMERICAN ROUTES

VIA MOFAT

Inland Navigation Facility/Fix

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MT

MT

MT

MT

MT

MT

MT

MT

MT

Non-Common Portion

- uomity/ ix		2001111111011
MOFAT	ALB J37 J75 MXE V378 BAL	ANDREWS
MOFAT	TVC OBK J73 BNA Rome Arrival	ATLANTA
MOFAT	ALB PWL CMK J75 MXE V378 BAL	BALTIMORE
MOFAT	ALB J6 SAX J77 PTW J61 HUBBS J193 WEAVR J121 CHS	CHARLESTON
MOFAT	ALB PWL CMK J75 GVE LYH Sudsy Arrival	CHARLOTTE
MOFAT	SEDOT ASP PAITN Arrival	CHICAGO
MOFAT	YXI J597 YSO J558 YXU J545 DJB J38 APE Cince Arrival	CINCINATTI
MOFAT	TVC BAE J105 RZC FSM BYP	DALLAS/FT. WORTH
MOFAT	SMARE ECK POLAR Polar Arrival	DETROIT
MOFAT	ALB J37 JFK CYN SIE	DOVER
MOFAT	ALB J6 LRP Delro Arrival	DULLES
MOFAT	ALB J6 SAX J77 PTW J48 EMI J61 HUBBS J93 WEAVR J121 CHS J79	
	OMN Fisel Arrival	FT. LAUDERDALE
MOFAT	TVC OBK J101 LIT J180 DAS Daisetta Arrival	HOUSTON
MOFAT	ALB IGN IGN Arrival	KENNEDY
MOFAT	ALB DNY LHY V93 LVZ V147 MAZIE	MCGUIRE
MOFAT	ALB PWL CMK J75 CAE J51 SAV J103 OMN HILEY Arrival	MIAMI
MOFAT	OBRET J570 YMX Mirabel Arrival	MONTREAL/MIRABEL
MOFAT	OBRET J570 YMX Antag Arrival	MONTREAL/TRUDEAU
MOFAT	ALB PWL CMK J75 CAE DUNKN AMG Leese Arrival	ORLANDO
MOFAT	ALB DNY Slatt Arrival	PHILADELPHIA
MOFAT	ALB J49 HNK HNK271 radial J190 SLT Grace Arrival	PITTSBURGH
MOFAT	TVC OBK J71 RBS Vandalia Arrival	ST. LOUIS
MOFAT	ALB CMK J75 Dades Arrival	TAMPA
MOFAT	YXI J597 V216 YSO JV37	TORONTO
	VIA MT	

14101711	ALD CHIRTY O DUGGS AHIVUI	17411174
MOFAT	YXI J597 V216 YSO JV37	TORONTO
	VIA MT	
Inland Navigation Facility/Fix	Non-Common Portion	Destination
MT	ALB J37 J75 MXE V378 BAL	ANDREWS
MT	TVC OBK J73 BNA Rome Arrival	ATLANTA
MT	ALB PWL CMK J75 MXE V378 BAL	BALTIMORE
MT	ALB J6 SAX J77 PTW J48 EMI J61 HUBBS J193 WEAVR J121 CHS	CHARLESTON
MT	ALB PWL CMK J75 GVE LYH Sudsy Arrival	CHARLOTTE
MT	SSM PAITN Arrival	CHICAGO
MT	YXI J597 YSO YXU J545 DJB J83 APE Cince Arrival	CINCINATTI
MT	TVC BAE J105 RZC FSM BYP	DALLAS/FT. WORTH
MT	SEDOT ECK POLAR POLAR ARRIVAL	DETROIT
MT	ALB J37 JFK CYN SIE	DOVER
MT	ALB J6 LRP Delro Arrival	DULLES
MT	ALB J6 SAX J77 PTW J48 EMI J61 HUBBS J93 WEAVR J121 CHS J79	
	OMN Fisel Arrival	FT. LAUDERDALE
MT	TVC OBK J101 LIT J180 DAS Daisetta Arrival	HOUSTON
MT	ALB IGN IGN Arrival	KENNEDY

ALB DNY LHY V93 LVZ V147 MAZIE

TVC OBK J71 RBS Vandalia Arrival

ALB CMK J75 TAY Dades Arrival

J570 YMX Mirabel Arrival

J570 YMX Antag Arrival

ALB DNY Slatt Arrival

YXI J597/V216 YSO V37

ALB PWL CMK J75 CAE J51 SAV J103 OMN Hiley Arrival

ALB PWL CMK J75 CAE J75 DUNKN AMG Leese Arrival

ALB J49 HNK HNK271 radial J190 SLT Grace Arrival

NORTH AMERICAN ROUTES 490

VIA NIICAR Inland Navigation

Non-Common Portion

NUCAR NEPTA J58 AEX Scurry Arrival

Facility/Fix

NUCAR

NUCAR

NUCAR

NUCAR

Inland Navigation Facility/Fix

OUBIS

QUBIS

OUBIS

OUBIS

OUBIS

OUBIS

OUBIS

OUBIS

OUBIS

OUBIS

OUBIS

Inland Navigation Facility/Fix

ROUND

ROUND

ROUND

ROHND

ROUND

ROUND

ROHND

ROUND

Inland Navigation Facility/Fix

SAILE

NUCAR JORAY Hiley Arrival

BAIRN Goofy Arrival

AYBID Frway Arrival

Non-Common Portion

BRDGE Brdge Arrival

CRANS Fisel Arrival

EMJAY J174 ATRO85 radial ATR V308 OTT ALB J6 SAX J77 PTW J48 MOL FLCON Arrival

ENE NELIE J75 GVE LYH Sudsy Arrival

ALB J49 HNK HNK271 radial J190 GRACE Grace Arrival

YXI J597 YSO J558 YXU J545 DJB J83 APE Cince Arrival

VIA ROUND

VIA SAILE

ACK J62 RIFLE J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival

ACK J62 RIFLE J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival

ENE NELIE J75 MXE V378 BAL

VIA DIIRIS

Destination

ΜΙΔΜΙ

TAMPA

ORI ANDO

PALM BEACH

Destination

ANDREWS

BALTIMORE

CHARLOTTE

CHARLESTON, SC

FT. LAUDERDALE

DALLAS/FT, WORTH

ATLANTA

BOSTON

DULLES

HOUSTON

ORI ANDO

PITTSBURGH

Destination

ATLANTA

CHICAGO

DETROIT

HOUSTON

ST. LOUIS

TORONTO

Destination

CHARLESTON, SC

FT. LAUDERDALE

ANDREWS

ATLANTA

BOSTON

DOVER

DULLES

KENNEDY

MCGUIRE

NEWARK

ORI ANDO

PHILADELPHIA

RALEIGH-DURHAM

MIAMI

TAMPA

CINCINATTI

DALLAS/FT. WORTH

RALEIGH-DURHAM

ΜΙΔΜΙ

TAMPA

DALLAS/FT WORTH

FT. LAUDERDALE

OUBIS EMJAY J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival **OUBIS** ENE BAF J77 PTW J48 MOL J22 VUZ JAN AEX Daisetta Arrival OUBIS EMJAY J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival **OUBIS** EMJAY J174 ORF J121 CHS J79 OMN Bitho Arrival

SCHIPP

FM ΙΔΥ 1174

ALB J6 LIT BYP

Non-Common Portion

SSM PAITN Arrival

ALB J6 LRP Delro Arrival

EMJAY J174 SWL Argal Arrival

TVC OBK J73 BNA Rome Arrival

TVC BAE J105 RZC FSM BYP

YXI J597 V216 YS0 V37

Non-Common Portion

ACK HTO J174

ACK HTO J121 SIE

PLYMM Parch Arrival

BOS BAF Shaff Arrival

ACK HTO J121 DRIFT V312 CYN

SCUPP

YVO SEDOT ECK POLAR Polar Arrival

TVC OBK J71 RBS Vandalia Arrival

TVC OBK J101 LIT J180 DAS Daisetta Arrival

ACK HTO J174 ATRO85 radial ATR V308 OTT

ACK HTO RBV V230 J48 MOL FLCON Arrival

ACK J62 RBV RBV289 radial V457 LRP Delro Arrival

ACK HTO J174 ORF J121 CHS J79 OMN Bitho Arrival

NE. 23 SEP 2010 to 18 NOV 2010

ACK HTO J121 BRIGS VCN Cedar Lake Arrival

ACK J62 RIFLE J174 SWL Argal Arrival

NELIE J75 CMK J75 TAY Dades Arrival

ENE NELIE J75 CMK J75 TAY Dades Arrival

Destination

Destination

ANDREWS

BALTIMORE

CHARLOTTE

CHARLESTON, SC

DALLAS/FT.WORTH

FT. LAUDERDALE

ATLANTA

BOSTON

DOVER

DULLES

HOUSTON KENNEDY

MCGUIRE

NEWARK

ORLANDO

PHILADELPHIA

RALEIGH-DURHAM

PITTSBURGH

MIAMI

TAMPA

DALLAS/FT, WORTH

ATLANTA

CHICAGO

DENI/ED

GRB J101 BAE J89 OBK J73 BNA Rome Arrival

VIA SSM

SSM	GEP J114	DENVER
SSM	STL J101 LIT J180 DAS Daisetta Arrival	HOUSTON
SSM	EAU Eau Arrival	MINNEAPOLIS/
		ST. PAUL
SSM	J548 TVC OBK J71 RBS Vandalia Arrival	ST. LOUIS
	VIA SYR	
Inland Navigation		
Facility/Fix	Non-Common Portion	Destination
SYR	FQM HAR V265 KOLBY PSB149 radial SHILO V93 BAL	ANDREWS
SYR	J59 PSB J78 HVQ J145 ODF FLCON Arrival	ATLANTA
SYR	FQM RAV V170 V499 TRISH	BALTIMORE
SYR	FQM HAR EMI J61 HUBBS J193 WEAVR J121 CHS	CHARLESTON, SC
SYR	J59 PSB J78 HVQ Johns Arrival	CHARLOTTE
SYR	J29 DJB J83 APE Cince Arrival	CINCINNATI
SYR	J29 PXV J131 LIT BYP	DALLAS/FT. WORTH
SYR	HAR LRP V210 SPERY	DOVER
SYR	J59 PSB PSB151 SEG201 HYPER Delro	DULLES
SYR	J29 PXV J131 LIT J180 DAS Daisetta Arrival	HOUSTON
SYR	IGN KINGSTON Arrival	KENNEDY
SYR	LVZ V147 MAZIE	McGUIRE
SYR	HNK V167 HELON V213 SAX	NEWARK
SYR	CFB SLATT Arrival	PHILADELPHIA
SYR	J29 JHW YNG CUTTA	PITTSBURGH
SYR	J29 ROD VHP Vandalia Arrival	ST. LOUIS

VIA TAFFY **Inland Navigation**

Non-Common Portion

J101 BAE J105 RZC FSM BYP

PAITN Arrival

Facility/Fix Non-Common Portion

ALB J6 SAX J6 LIT BYP

ALB J6 LRP Delro Arrival

ENE Parch Arrival

HANAA ALB V123 SAX

EMJAY J174 SWL Argal Arrival

SEAER J79 LFV J174 HTO J121 SIE

TAFFY **TAFFY** TAFFY POI J55 ENE NELIE J75 MXE V378 BAL **TAFFY** SCUPP TAFFY EMJAY J174

TAFFY

TAFFY

TAFFY

TAFFY

TAFFY

TAFFY

TAFFY

TAFFY

TAFFY

TAFFY

TAFFY

TAFFY

TAFFY

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TAFFY

Inland Navigation Facility/Fix

SSM

SSM

SSM

0014

EMJAY J174 ATR085 radial ATR V308 OTT ALB J6 SAX J77 PTW J48 MOL FLCON Arrival

ENE NELIE J75 CMK J75 GVE LYH Sudsy Arrival

SEAER J79 LFV J174 HTO J121 DRIFT V312 CYN

EMJAY J174 ORF J121 CHS J79 OMN Bitho Arrival

ENE CTR HNK HNK271 radial J190 SLT Grace Arrival

ENE NELIE J75 CMK J75 TAY Dades Arrival

EMJAY J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival

EMJAY J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival

SEAER J79 LFV J174 HTO J121 BRIGS VCN Cedar Lake Arrival

NE. 23 SEP 2010 to 18 NOV 2010

ENE BAF J77 PTW J48 MOL J22 VUZ JAN AEX Daisetta Arrival

492 NORTH AMERICAN ROUTES

EMJAY J174 ATRO85 radial ATR V308 OTT

۷ Inland Navigation

Non-Common Portion

EMJAY J174

BOS J77 SAX J6 LIT BYP

LFV J174 HTO J121 SIE

PLYMM Parch Arrival

BOS BAF Shaff Arrival

EMJAY J174 SWL Argal Arrival

BOS J75 CMK J75 GVE LYH Sudsy Arrival

BOS J77 SAX J6 LRP Delro Arrival

LFV J174 HTO J121 DRIFT V312 CYN

BOS J77 SAX J80 VHP Vandalia Arrival

BOS J75 CMK J75 TAY Dades Arrival

Facility/Fix

TOPPS

TUSKY

IA TOPPS	
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Destination

CHARLESTON, SC

FT. LAUDERDALE

DALLAS/FT. WORTH

CHARLOTTE

DOVER

DULLES

HOUSTON

KENNEDY

MCGUIRE

NEWARK

ORLANDO

ST.LOUIS

TAMPA

PHILADELPHIA

RALEIGH-DURHAM

PITTSBURGH

MIAMI

ANDREWS

TOPPS	ENE BAF J77 PTW J48 MOL FLCON Arrival	ATLANTA
TOPPS	ENE NELIE J75 MXE V378 BAL	BALTIMORE
TOPPS	SCUPP	BOSTON
TOPPS	EMJAY J174	CHARLESTON, SC
TOPPS	ENE NELIE J75 CMK J75 GVE LYH Sudsy Arrival	CHARLOTTE
TOPPS	YOW J553 ECK FNT PAITN Arrival	CHICAGO
TOPPS	YOW J546 YSO J558 YXU J545 DJB J83 APE Cince Arrival	CINCINNATI
TOPPS	ENE BAF J77 SAX J6 LIT BYP	DALLAS/FT. WORTH
TOPPS	YOW J546 YSO J597 YQO V464 Spica Arrival	DETROIT
TOPPS	SEAER J79 LFV J174 HTO J121 SIE	DOVER
TOPPS	ENE BAF J77 SAX J6 LRP Delro Arrival	DULLES
TOPPS	EMJAY J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival	FT. LAUDERDALE
TOPPS	ENE BAF J77 PTW J48 MOL J22 VUZ JAN AEX Daisetta Arrival	HOUSTON
TOPPS	ENE Parch Arrival	KENNEDY
TOPPS	SEAER J79 LFV J174 HTO J121 DRIFT V312 CYN	MCGUIRE
TOPPS	EMJAY J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival	MIAMI
TOPPS	HANAA ALB V213 SAX	NEWARK
TOPPS	EMJAY J174 ORF J121 CHS J79 OMN Bitho Arrival	ORLANDO
TOPPS	SEAER J79 LFV J174 HTO J121 BRIGS VCN Cedar Lake Arrival	PHILADELPHIA
TOPPS	ENE CTR HNK HNK271 radial J190 SLT Grace Arrival	PITTSBURGH
TOPPS	EMJAY J174 SWL Argal Arrival	RALEIGH-DURHAM
TOPPS	ENE BAF J77 SAX J80 VHP Vandalia Arrival	ST. LOUIS
TOPPS	ENE NELIE J75 CMK J75 TAY Dades Arrival	TAMPA
TOPPS	OMBRE Ombre Arrival	MONTREAL/TRUDEAU
TOPPS	VLV J565 V363 Catog Arrival	MONTREAL/MIRABEL
TOPPS	YOW J546 V300 YS0 V37	TORONTO

TOPPS	YOW J546 V300 YS0 V37	TORONTO
	VIA TUSKY	
Inland Navigation Facility/Fix	Non-Common Portion	Destination
TUSKY	EMJAY J174 ATR085 radial ATR V308 OTT	ANDREWS
TUSKY	BOS J77 PTW J48 MOL FLCON Arrival	ATLANTA
TUSKY	BOS J75 MXE V378 BAL	BALTIMORE
TUSKY	SCUPP	BOSTON

EMJAY J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival

EMJAY J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival

NE. 23 SEP 2010 to 18 NOV 2010

BOS J77 PTW J48 MOL J22 VUZ JAN AEX Daisetta Arrival

EMJAY J174 ORF J121 CHS J79 OMN Bitho Arrival

LFV J174 HTO J121 BRIGS VCN Cedar Lake Arrival

BOS CTR HNK HNK271 radial J190 SLT Grace Arrival

Destination

Destination

MIAMI

NEWARK

ORLANDO

TAMPA

PHII ADEI PHIA

Destination

ANDREWS

BALTIMORE

CHARLOTTE

CHARLESTON, SC

DALLAS/FT. WORTH

FT. LAUDERDALE

ATLANTA

BOSTON

DOVER

DULLES

HOUSTON

KENNEDY

MCGUIRE

NEWARK

ORLANDO

ST. LOUIS

TAMPA

PHILADELPHIA

RALEIGH-DURHAM

PITTSBURGH

MIAMI

RALEIGH-DURHAM

VIA VANSI

Non-Common Portion

Non-Common Portion

BOS BAF Shaff Arrival

Non-Common Portion

SCUPP

LFV J174

BOS J75 MXE V378 BAL

BOS J77 SAX J6 LIT BYP

LFV J174 HTO J121 SIE

PLYMM Parch Arrival

BOS BAF Shaff Arrival

LFV J174 ATR085 radial ATR V308 OTT

BOS J75 CMK J75 GVE LYH Sudsy Arrival

BOS J77 SAX J6 LRP V143 Delro Arrival

LFV J174 HTO J121 DRIFT V312 CYN

ACK J62 RIFLE J174 SWL Argal Arrival

BOS J77 SAX J80 VHP Vandalia Arriva

BOS J75 CMK J75 TAY Dades Arrival

BOS J77 PTW J48 MOL FLCON Arrival

Inland Navigation Facility/Fix

Inland Navigation Facility/Fix

VITOL

VITOL

VITOL

VITOI

VITOI

VITOI

Inland Navigation Facility/Fix

WHALE

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VANSI	TVC OBK J73 BNA Rome Arrival	ATLANTA
VANSI	SSM PAITN Arrival	CHICAGO
VANSI	YXI J597 YSO J558 YXU J545 DJB J83 APE Cince Arrival	CINCINATTI
VANSI	TVC BAE J105 RZC FSM BYP	DALLAS/FT. WORTH
VANSI	YVO SEDOT ECK POLAR Polar Arrival	DETROIT
VANSI	TVC OBK J101 LIT J180 DAS Daisetta Arrival	HOUSTON
VANSI	TVC OBX J71 RBS Vandalia Arrival	ST LOUIS
VANSI	YXI J597 V216 YSO V37	TORONTO
i		

VIA VITOL

VITOL	ACK HTO J174 ATR085 radial ATR V308 OTT	ANDREWS
VITOL	ACK HTO RBV J230 J48 MOL FLCON Arrival	ATLANTA
VITOL	SCUPP	BOSTON
VITOL	ACK HTO J174	CHARLESTON, SC
VITOL	ACK HTO J121 SIE	DOVER
VITOL	ACK J62 RBV RBV289 radial V457 LRP Delro Arrival	DULLES
VITOL	ACK J62 RIFLE J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival	FT. LAUDERDALE
VITOL	PLYMM Parch Arrival	KENNEDY
VITOL	ACK HTO J121 DRIFT V312 CYN	MCGUIRE

ACK HTO J174 ORF J121 CHS J79 OMN Bitho Arrival

ACK HTO J121 BRIGS VCN Cedar Lake Arrival ACK J62 RIFLE J174 SWL Argal Arrival NELIE J75 CMK J75 TAY Dades Arrival

ACK J62 RIFLE J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival

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BOS J77 PTW J48 MOL J22 VUZ JAN AEX Daisetta Arrival

LFV J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival

LEV J150 HTO J174 ORF J121 CHS J79 OMN Bitho Arrival

LFV J174 HTO J121 BRIGS VCN Cedar Lake Arrival

BOS CTR HNK HNK271 radial J190 SLT Grace Arrival

ACK J62 RIFLE J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival

VIA WHALE



494 NORTH AMERICAN ROUTES

VBS YXI YVV ECK POLAR Polar Arrival

VBS YXI YEE ECK GIJ RBS Vandalia Arrival

VIA YRC

YBC	VBS POLTY YSO YXU J545 DJB J83 APE J186 SOT FLCON Arrival
YBC	VBS SEDOT ECK FNT PAITN Arrival
YBC	VBS POLTY YSO YXU J545 DJB J83 APE Cince Arrival

Non-Common Portion

Arrival

BLAKK Catog Arrival

Non-Common Portion

BLAKK OMBRE Ombre Arrival

YMX J546 V300 YS0 V37

SEDOT ASP PAITN Arrival

BLAKK Catog Arrival

Non-Common Portion

BR22V DEKAL

BR54V

YXI YVV ECK POLAR Polar Arrival

MUROP OMBRE Ombre Arrival

YMX J546 V300 YS0 V37

BR49V FOWEE Fowee Arrival

YXI YEE ECK GIJ RBS Vandalia Arrival

Inland Navigation

Facility/Fix

YBC

YBC

YBC

YBC

YBC

YBC

YBC

YRI

ZQA

ZQA

ZQA

Inland Navigation Facility/Fix

Inland Navigation Facility/Fix

VBS POLTY YSO YXU J545 DJB J29 PXV J131 LIT J180 DAS Daisetta

VIA YRI

POLTY YSO YXU J545 DJB J83 APE J186 SOT FLCON Arrival

POLTY YSO YXU J545 DJB J83 APE Cince Arrival

POLTY YSO YXU J545 DJB J29 PXV J131 LIT BYP

VBS POLTY YSO YXU J545 DJB J29 PXV J131 LIT BYP

CINCINNATI DALLAS/FT WORTH

Nestination

ATLANTA CHICAGO

DETROIT HOUSTON

ATLANTA

DETROIT

HOUSTON

ST. LOUIS

TORONTO

Destination

PALM BEACH

MIAMI

FT LAUDERDALE

CINCINNATI

DALLAS/FT WORTH

MONTREAL/MIRABEL

MONTREAL/TRUDEAU

MONTREAL/MIRABEL

MONTREAL/TRUDEAU ST. LOUIS TORONTO

Destination CHICAGO

POLTY YSO YXU J545 DJB J29 PXV J131 LIT J180 DAS Daisetta Arrival

VIA ZQA

RNAV Routing Pitch and Catch Points

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial

HAR Phase I expansion airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing (NRR), between specific fixes described by pitch (entry into) and catch (exit out of) fixes in the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of NRR. The catch point indicates where a flight ends a segment of NRR and joins published arrival procedures,

preferred IFR routing, or other established routing programs. The HAR Phase I expansion airspace is defined as that airspace at and above FL 350 in fourteen of the western and southern Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA), Seattle Centers (ZSE), Los Angeles (ZLA), Albuquerque (ZAB), Fort Worth (ZFW), Memphis (ZME), and Houston (ZHU), Jacksonville (ZJX) and Miami (ZMA) are included for east-west routes

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace. Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the route between the pitch and catch points, non-restrictive routing is permitted. Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the NRR portion of their routing, an appropriate arrival procedure or other user preferred routing to their destination.

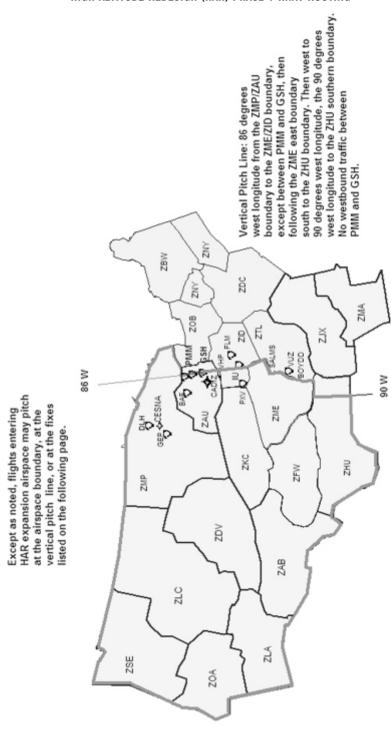
Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: http://sua.faa.gov/sua/Welcome.do. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as

areas when they are scheduled to be active, thereby avoiding unplanned reroutes around them.

preferred IFR routes.

High Altitude Redesign (HAR) Phase One Expansion Airspace



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497 HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING HAR Special High Altitude Pitch (entry) Points for Nonrestrictive Routing for Airports Located Outside HAR Phase I Expansion Airspace Westbound traffic originating outside of HAR airspace entering ZMP, ZAU, ZKC and ZME can begin non-restrictive routing over any of the following pitch points (listed from north to south): DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLM, IIU, PXV, SGF, RZC, BNA, SALMS, VUZ, BOYDD, MIE Traffic originating outside of HAR airspace may also begin Nonrestrictive Routing upon crossing the pitch line depicted on the associated graphic. HAR Special High Altitude Pitch Points for Airports Located Within (below) **HAR Phase I Expansion Airspace** This section lists pitch points for airports within the HAR Phase I expansion airspace. ABQ, GUP, HANOS or ZUN Albuquerque

ABI, FUZ, JCT, MOP, NAVYS, SJT or TNV

Austin Boca Raton, FL TBIRD KPASA Q118 LENIE TBIRD KPASA Q116 CEEYA TBIRD KPASA Q110 FEONA

> or PMD BLH

TBIRD SMELZ Q106 BULZI TBIRD SMELZ Q106 GADAY Burbank includes GMN. MARKS Santa Monica DAG LAS and Van Nuys or HEC FED

Chicago Terminal Area Dallas/Fort Worth Terminal Area

ABI, LBB, GTH, CDS, MRMAC, IRW, TUL, MLC, TXK ELD, SWB or Aircraft destined the Chicago terminal area Except MDW EAKER MIDEE BDF BRADFORD-STAR MLC J105 SGF BDF BRADFORD-STAR

Denver Terminal Area Fort Lauderdale (or) Fort Lauderdale Executive

Houston Bush

CABET, WEEDS, OR BINKE THNDR KPASA 0118 LENIE

THNDR KPASA Q116 CEEYA THNDR KPASA Q110 FEONA

THNDR SMELZ Q106 GADAY THNDR SMELZ 0106 BULZI LIT, ELD, MLC, JCT Aircraft destined Atlanta Terminal Area LCH 024 PAYTN HONIE-RNAV STAR

IOW, PLL275065, MZV or BAE

Aircraft joining J37 to the northeast, GUSTI SID GUSTI Q22 CATLN

Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42

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PUB, DVC, DBL, RLG, EKR, LAR, MBW, CYS, BFF, HANKI, NATTI, ASHBY, BELKE,

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING 498 Houston Hobby LIT, ELD, MLC, JCT, Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42 Jacksonville, FL Kansas City Terminal Area TIFTO, CATTS or KENTN Los Angeles, includes Ontario GMN, RZS DAG LAS TRM EED TRM PKE DOBNE, MOSBI, NICLE, TRALR or ZELOT Las Vegas GMN SNS, EHF, LANDO Long Beach includes Orange County TRM PKE or TRM EED BNA, HAAWK, SALMS or SQS Memphis Miami Terminal Area WINCO KPASA Q118 LENIE WINCO KPASA Q116 CEEYA WINCO KPASA Q110 FEONA WINCO SMELZ Q106 GADAY WINCO SMELZ Q106 BULZI Milwaukee GREAS Minneapolis Terminal Area* ONL, ABR, FAR, OBH, OVR, FOD AEX, MEI, SQS, KAPLN New Orleans Terminal Area Orlando Terminal Area WEBBS BRUTS Q118 LENIE WEBBS GULFR Q116 CEEYA WEBBS BULZI Q106 GADAY WEBBS FEONA WEBBS BULZI Palm Beach, FL TBIRD KPASA Q118 LENIE TBIRD KPASA Q116 CEEYA TBIRD KPASA Q110 FEONA TBIRD SMELZ Q106 BULZI TBIRD SMELZ 0106 GADAY Palm Springs TRM JOTNU BLD TRM EED TRM PKE Phoenix CHILY, CIE, CULTS, RSK, DOVEE, GCN, MESSI, SJN, DRYHT or MOHAK Portland, OR PDT, TIMEE NE. 23 SEP 2010 to 18 NOV 2010

HIGH AL	TITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING	499
Salt Lake City	HVE, DTA, MLF, BCE, OAL, MTU, BVL, OCS, TWF, DBS, BPI or TCH J56 CHE or TCH J173 EKR	
Saint Louis	VIH, MAP, MYERZ, MCM or HLV MCI	
San Antonio Terminal Area	FUZ, SJT, MQP, ABI or Aircraft North of LFK, LFK or Aircraft South of HUB, ELA or Aircraft South of HUB, THEA AIRCRAFT SOUTH OF HUB LCH	

TRM EED

TRM JOTNU BLD

GALLI or INSLO BLUIT

FEONA, BULZI BRUTS Q118 LENIE **GULFR 0116 CEEYA** BULZI Q106 GADAY *MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing.

MEM

BWG, BWG

MEI HONIE (RNAV)-STAR PATYN HONIE (RNAV)-STAR

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Catch Points for Airports Located Outside HAR Phase I Expansion Airspace This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace.

> Aircraft through ZME airspace from ZKC airspace east of FAM, Pless Q19 BNA Aircraft through ZME airspace from ZKC airspace west of FAM, ARG Q26 DEVAC

Aircraft through ZME airspace from ZID airspace west of a line from VHP to

Aircraft through ZME airspace from ZID airspace east of a line from VHP to

Aircraft through ZME airspace from ZFW airspace, MEM

or TRM PKE or

San Diego

San Francisco Bay Area

Southwest Florida Airports

Tampa Terminal Area

Atlanta Terminal Area

Oakland

San Jose

(RSW/FMY)

Seattle

GALLI, INSLO, HAROL JSICA GALLI, INSLO, HAROL JSICA JOCKS KPASA Q118 LENIE JOCKS KPASA Q116 CEEYA JOCKS KPASA Q110 FEONA JOCKS SMELZ Q106 GADAY JOCKS SMELZ Q106 BULZI

Canton-Akron* GIJ. VHP. GEP Charlotte BNA. VUZ Cincinnati Terminal Area BNA. PXV or Aircraft north of SLC, JOT Aircraft over or south of SLC, ENL SLC or SFO departures, ENL, JOT Cleveland Terminal Area* OBK Detroit Terminal Area BAE MKG POLAR-STAR VHP FWA MIZAR-STAR VHP FWA Detroit Young or LAN SPRTN-STAR Indianapolis Terminal Area BIB, SPI, JOT Louisville ENL, MEM Newark* GEP, VHP, FLM, IIU, BNA, VUZ IOW GIJ J554 CRL J584 SLT FQM

GEP, CRL

GEP, CRL

500

Boston*

Ruffalo*

Hartford Bradley*

New York Kennedy*

New York LaGuardia*

Pontiac Providence

Raleigh-Durham

Teterboro*

White Plains*

Willow Run*

Toronto Terminal Area

Washington Dulles/National*

Q505, Q504, Q502, Q501

Philadelphia Terminal Area*

Pittsburgh Terminal Area*

Baltimore-Washington*

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING

GEP, CRL, ECK, IIU, BNA or VUZ

GEP, VHP, FLM, IIU, BNA, VUZ DBQ J94 PMM J70 LVZ LENDY-STAR

VHP, GIJ, BAE, GEP

FLM, IIU, BNA, VUZ

ECK, SVM, SSM, GEP

GEP, VHP, CRL, BNA, VUZ

LAN, LFD, VHP, FWA, GEP *Eastbound aircraft over flying ZMP center airspace entering Toronto center airspace, file direct SSM or via J63, J522

GEP. VHP. CRL. FLM. IIU. BNA. VUZ

LFD, LAN, VHP, FWA, GEP

GIJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ

GIJ, GEP, VHP, BAE, WHETT, BNA, VUZ

JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP, VHP, IIU, BNA, VUZ

GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA, VUZ

GIJ. GEP. FLM. IIU. BAE. VHP. WHETT. BNA or VUZ

Entering ZAU or ZOB airspace from north of DPR J16 MCW, GEP Entering ZAU or ZOB airspace from or south of DPR J16 MCW, CRL. ESPAN FRIHO-STAR LAVAN LAVAN-STAR FTI FRIHO-STAR

MIERA MIERA-STAR

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING

Catch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

Aircraft west of a north-south line at LFK, BLEWE

Aircraft east of a north-south line at LFK.IDU

or

CEW DEFUN Q112 INPIN SHDAY (RNAV)-STAR Aircraft through ZHU remain south of ZME and ZTL airspace DEFUN Q112 INPIN SHDAY (RNAV)-STAR

Austin Terminal Area

Boca Raton, FL

Chicago Midway

Aircraft through ZHU remain south of ZME and ZTL airspace SZW INPIN SHDAY (RNAV)-STAR CVA MOTIF-STAR or

PIA MOTIF-STAR DBO CVA MOTIF-STAR Chicago O'Hare Terminal Area

LMN MOTIF-STAR GEP DLL MSN JVL JANESVILLE-STAR TVC PULLMAN-STAR FOD DBQ JVL JANESVILLE-STAR

Dallas/Fort Worth Terminal Area

MCW JANESVILLE-STAR GCK IRK BRADFORD-STAR

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Aircraft through ZME airspace from J52 and south of J52, SQS

Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS

Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW

IRW, LOSZY, FSM, LIT, SQS, MLU, AEX, JUMBO, TQA, TURKI, HEATR Aircraft through ZME airspace from north and west of PXV, RZC, Q23 FSM

50

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING 502 Denver Terminal Area OATHE DANDD-STAR HGO QUAIL-STAR LOPEC-STAR or ALS LARKS-STAR HBU POWDR-STAR or EKR TOMSN-STAR CHE TOMSN-STAR or BFF LANDR-STAR or LBF SAYGE-STAR HCT SAYGE-STAR RSK LARKS-STAR LAA QUAIL-STAR GCK J154 RYLIE DANDD-STAR OCS J154 ALPOE RAMMS-STAR YANKI J114 SNY LANDR-STAR Aircraft filed BIL or east, MBW RAMMS-STAR Ft Lauderdale or CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR Ft Lauderdale Executive Aircraft through ZHU airspace remain south ZME and ZTL airspace Ωr SZW HEVVN Q104 PIE SWAGS (RNAV)-STAR Houston Bush CRP, CVE, LLO, LUKIY, SAT or Aircraft south and east of LLA, JEPEG MISLE Q40 AEX Aircraft north and east of SJI, SJI Aircraft east of PXV, PXV Q31 DHART SWB Aircraft north and west of PXV. PROWL 033 DHART SWB Houston Hobby CRP, ELLVR, SAT, SWB or Aircraft south and east of GIRLY, KCEEE Aircraft north and east of SJI, SJI BESOM Q38 ROKIT ROKIT-STAR Aircraft east of PXV. PXV 029 HARES SWB Aircraft north and west of PXV, PROWL Q33 DHART SWB **GADAY ZOOSS TAY** Jacksonville Aircraft through ZHU airspace remain south of ZME and Z airspace or **ZOOSS TAY**

	Aircraft South of TBC from ZAB airspace, HIPPI, MESSI
Miami Terminal Area	CEW DEFUN Q104 CYY DEEDS (RNAV)–STAR Aircraft through ZHU airspace remain south ZME and ZTL airspace or SZW HEVVN Q104 CYY DEEDS (RNAV)–STAR
Minneapolis Terminal Area	Aircraft from north, west, south, FAR GOPHER-STAR or RWF SKETR-STAR or ALO KASPR-STAR or BRD GOPHER-STAR or BAE EAU CLAIRE-STAR or FOD TWOLF-STAR
Memphis Terminal Area	ARG, BWG, FSM, PXV, LIT, RZC, SQS, VUZ, BNA, GQO, ELD
Naples, FL	CEW DEFUN Q104 PLYER PIKKR (RNAV)–STAR Aircraft through ZHU AIRSPACE remain south of ZME and ZTL airspace or SZW HEVVN Q104 PLYER PIKKR (RNAV)–STAR
Nashville	CCT, GHM, GUITR, TINGS, VOLLS
New Orleans Terminal Area	BLUEZ, GPT, LCH, MCB, TBD, FATSO
Oakland	ILA or KATTS PAMMY or Aircraft over or south of a line ILC J16 DVC

REANA KATTS PAMMY

KATTS PAMMY

airspace OTK LEESE-STAR

Aircraft from north of ILC, JOPER PAMMY

GADAY Q108 CLAWZ LEESE-STAR

Aircraft over or south of ILC, REANA KATTS PAMMY

Aircraft through ZHU airspace remain south of ZME/ZTL

HEC, PGS, BLD

LMN BRAYMER-STAR PWE ROBINSON-STAR EMP JHAWK-STAR

DILCO, LIDAT, IGM

Aircraft south of TBC from ZAB airspace, HIPPI

Aircraft over PGA or north of PGA KSINO Aircraft south of PGA PGS LYNSY

Aircraft North of TBC, HEC, PGS

John Wayne-Orange County

Kansas City Terminal Area

Los Angeles Terminal Area

Las Vegas

Orlando Terminal Area

504	HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING
Palm Beach, FL	CEW DEFUN Q112 INPIN GULLO (RNAV)—STAR Aircraft through ZHU airspace remain south of ZME and Z airspace or SZW INPIN GULLO (RNAV)—STAR
Phoenix	CORKR DRK or Aircraft from ZDV airspace, GUP or Aircraft from ZAB airspace, ZUN, MOHAK, SSO or
Phoenix Satellites	VYLLA TUS FLG, SSO, MOHAK or
Portland, OR Terminal	or LARNO BONVL-STAR or
St. Louis Terminal Are	MOXEE MOXEE_STAR SGF TRAKE_STAR or BUM TRAKE_STAR or ANX TRAKE_STAR or LMN IRK RIVRS_STAR
Salt Lake City Termina	RBS VANDALIA-STAR JNC J12 HELPR SPANE-STAR or EKR MTU SPANE-STAR or BCE DTA-TCH or MLF DTA-TCH or BVI BONNEVILLE-STAR or BYI BEARR-STAR or PIH BEARR-STAR or DBS BRIGHAM CITY-STAR or BPI BRIGHAM CITY-STAR or OR BPI BRIGHAM CITY-STAR OR OR OR OCS BRIGHAM CITY-STAR
San Diego Terminal Ar	ea EED, LAX, GBN
Santa Ana San Antonio Terminal <i>i</i>	HEC, PGS, BLD, HIPPI Area IDU, CSI, JCT, LLO, CRP, LRD or West of a north-south line at LFK, BLEWE

East of a north-south line at LFK, IDU

505

FMG GOLDEN GATE-STAR MVA MODESTO-STAR ENI GOLDEN GATE-STAR

San Francisco

San Jose

Seattle Terminal Area

Southwest Florida Airports

Tampa Terminal Area

RSW and FMY

Tucson

BTG OLMYPIA-STAR CEW DEFUN 0104 SWABE JOSFF-STAR

٥r

SUNED CHINS-STAR

Aircraft through ZHU airspace remain south of ZME and ZTL airspace or

SZW HEVVN Q104 SWABE JOSFF-STAR CEW DEFUN Q104 HEVVN DARBS-STAR Aircraft through ZHU airspace remain south of ZME and ZTL

airspace or SZW DARBS-STAR

or MOHAK GBN

DRK PXR

OAL MODESTO-STAR

South of a line ILC to DVC.

REANA KATTS OAL MODESTO-STAR

FMG HYP EL NIDO-STAR

OAL HYP EL NIDO-STAR

ENLIGOLDEN GATE-STAR

South of a line ILC to DVC, REANA KATTS KICHI CANDA EL NIDO-STAR

Aircraft from northeast, southeast, south,

TEMPL GLASR-STAR

VFR WAYPOINTS 506 VISUAL FLIGHT RULES (VFR) WAYPOINTS VFR Waypoint names consist of five letters beginning with "'VP'', Stand-alone VFR Waypoints are portrayed on VFR Chart:

using the same four-point star symbol currently used for Instrument Flight Rules (IFR) Waypoints. VFR Waypoints collocated with Visual Checkpoints (Visual Reporting Points) are portrayed with a Visual Check Point flag

The VFR Waypoint name is shown in parentheses adjacent to the Visual Check Point name. VFR Waypoint names are not intended to be pronounceable and shall not be used in ATC communications.

> CAUTION: GPS accuracy necessitates extra vigilance for other aircraft when navigating near any fix retrieved from a GPS database.

BALTIMORE-WASHINGTON TERMINAL AREA CHART/FLYWAY CHART

VPOOP		N38°56.32′/W076°36.90′
	BOSTON HELICOPTER	R CHART
VPBAY		N42°16.17′/W070°49.48′
VPBLT		N42°19.67′/W070°53.40′
VPCGS		N42°22.08′/W071°03.13′
VPEVS		N42°23.52′/W071°04.10′
VPFEN		N42°12.58′/W071°08.88′
VPFRE		N42°25.03′/W071°12.32′

N42°21.88'/W070°52.18'

N42°30.13'/W071°07.15'

VPGVI VPHΔM VPPIK N42°20.37'/W071°15.93' VPOLIA

N42°12.10′/W071°04.78′ **VPQUB** N42°12.60′/W070°59.83′ N42°24.20'/W071°09.47'

VPSPF VPTOR N42°31.42′/W070°59.82′ VPWAN N42°36.88'/W071°19.45'

COLLOCATED VER CHECKPOINT

BOSTON TERMINAL AREA CHART

VPCOH COHASSET

VPCUT CUTTYHUNK HARROR

VPFRA FRAMINGHAM SHOPPING CENTER

WOODS HOLE

VPHOL VPHIII HULL VPLPT NANTUCKET GREAT POINT

NEEDHAM TOWERS

VPNFD V/DDFA PEABODY SHOPPING CENTER VPROC ROCKINGHAM RACE TRACK SCITUATE

VPSCI NANTUCKET THIRD POINT VPTPT **VPTUC** TUCKERNUCK WAKEFIELD WANG TOWERS

WAYPOINT IDENT

ΛΡΔΧΙ VPONX

VPAVA

VPRFF

VPRR A

VPGCF

VPGHI

VPGIO

VPK III

VPLMN

VPMAR

VPNIPO

VPOKY

VPREP

VPRRS

VPUMO

VPWZO

VP7IF

VPWΔK VPWAN CHARLOTTE SECTIONAL CHART **VPATO**

ISLE OF DALMS

NE. 23 SEP 2010 to 18 NOV 2010

N42°13.58'/W070°48.94' N41°25.50'/W070°55.03'

N34°37.37'/W076°31.47'

N34°57.00′/W077°16.50′

N32°16.38'/W080°47.50'

N36°13.75'/W076°08.08'

N36°03.90'/W076°36.42'

N35°15.30′/W075°31.25′

N35°32.50'/W076°37.33'

N35°26.58'/W076°10.22'

N34°55.43'/W077°46.42'

N34°42.20'/W077°03.50'

N32°47.78'/W079°46.45'

N35°06.53'/W075°59.17'

N32°33.98'/W080°21.82'

N33°25.45'/W079°07.60'

N35°35.63'/W075°28.08'

N36°00.87'/W075°40.07'

N32°01.62'/W080°53.42'

N38°34.57′/W076°20.38′

N39°06 65'/W076°55 92'

N42°18.16'/W071°23.65' N41°31.06′/W070°40.60′ N42°18.20′/W070°55.30′

N41°23.41′/W070°02.78′ N42°18.51'/W071°14.64' N42°32.52′/W070°56.69′ N42°46.29'/W071°13.57' N42°11.89'/W070°43.69' N41°18.51'/W070°03.37' N41°18.31'/W070°15.43' N42°30.72′/W071°05.24′

N42°36.88'/W071°19.45'

DENVER TERMINAL AREA CHART/FLYWAY CHART

VPRFN N39°44.28'/W104°26.00' VPFTG N39°44.35'/W104°32.75' VPNIC NORTH INTERCHANGE N39°58.90'/W104°59.27' HOUSTON TERMINAL AREA CHART/FLYWAY CHART COLLOCATED VFR CHECKPOINT WAYPOINT IDENT VPRWY N29°46 25' /W095°09 24' VPDTN N29°46.59'/W095°22.01' VPGI A N30°08.32'/W095°06.62' **VPGLB** N30°07.80'/W094°55.70' VPKTY N29°47.05'/W095°44.92' VPPI N N30°08.80'/W095°50.42' VPRSN N29°30.00'/W095°41.00' N29°23.13′/W095°28.86′ VPSND VPSNT N29°49.29'/W094°53.94' VPTNE N29°47.48'/W095°03.34' VPTNW N29°47.06'/W095°33.81' VPTRK N29°24.06'/W095°10.44' IACKSONVILLE SECTIONAL CHART VPAFI N31°49.35'/W081°51.07' VPAFY N30°07.00'/W081°21.33' VPBEC N29°46.25'/W081°15.10' **VPCJA** N29°30.00'/W081°06.00' VPCKY N28°46.50'/W082°34.00' VPCNY N28°30.00'/W080°45.00' **VPDAD** DADE CITY N28°22.57'/W082°11.25' **VPDAR** N31°22.38'/W081°24.13' VPDFI N29°00.17'/W081°20.85' VPDUT N27°37.70′/W082°09.10′ N27°58.67'/W082°49.83' **VPEAR** CLEARWATER BEACH N29°39.97'/W081°24.87' **VPEGV VPFFU** N28°57.08'/W081°00.33' ST PETE BEACH N27°43.50'/W082°44.67' VPHAA N30°04.02'/W083°40.02' VPHUC N28°19.87'/W082°43.77' MIDWAY N31°48.33'/W081°25.85' V/PIW/A **VPJMY** N29°26.92'/W081°18.27' **VPKER** LAKE PARKER N28°04.00'/W081°56.00' VPLEV N28°48.00'/W080°52.00' **VPLJA** N29°00.00'/W080°51.00' VPMAI N30°50.02'/W084°56.63' **VPTLH** N30°32.70′/W083°52.22′ VPX7Y N29°35.00′/W083°10.00′ **VPYIW** N30°42.28'/W081°27.25' **VPZIE** N32°01.62'/W080°53.42' KANSAS CITY SECTIONAL CHART **VPAGO** N37°50.33'/W090°29.03' **VPBEK** N37°15.07'/W092°30.67' **VPDEN** N37°46.75'/W092°19.20' VPENE N37°44.75'/W091°55.78' **VPESS** N36°59.48'/W091°00.88' VPFMF N37°41.00′/W092°38.33′ **VPGXY** N37°15.50′/W091°40.17′ N37°11.08'/W090°27.92' **VPMKE** N37°24.47'/W092°40.00' **VPROV** N38°01.72′/W091°12.81′ VPLITT N37°52.05'/W092°01.20'

508	VFR WAYPOINTS	VFR WAYPOINTS					
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION					
VPWOC		N37°18.03′/W092°18.63					
VPWRO VPXIZ		N37°39.12′/W091°45.68 N37°26.60′/W092°05.42					
	KANSAS CITY TERMINAL AR						
VPATN	ATCHISON	N39°33.62′/W095°07.65					
VPBGS	BLUE SPRINGS	N39°01.82′/W094°16.32					
VPBSP	BONNER SPRINGS	N39°03.78′/W094°53.10					
VPCHB	CHOUTEAU BRIDGE	N39°08.77′/W094°32.03					
VPDS0	DE SOTO	N38°58.68′/W094°58.48					
VPESG	EXCELSIOR SPRINGS	N39°20.68′/W094°13.77					
VPGTB	GARRETSBURG	N39°40.92′/W094°41.45					
VPLAT	LATHROP WATER TANK	N39°32.87′/W094°20.00					
VPLEN	LENEXA	N38°57.77′/W094°43.68					
VPLVL	LONGVIEW LAKE	N38°54.63′/W094°28.28					
VPMCL	MC LOUTH	N39°11.65′/W095°12.50					
VPNHA	NASHUA	N39°17.83′/W094°34.80					
VPSCX	SPORTS COMPLEX	N39°03.00′/W094°29.02					
VPSKR	SUGAR CREEK REFINERY	N39°07.00′/W094°27.02					
VPSPK	SWOPE PARK	N39°00.47′/W094°31.93					
VPTSK	TWIN STACKS	N39°09.05′/W094°38.22					
VPWOF	WORLDS OF FUN	N39°10.42′/W094°29.12					
	KLAMATH FALLS SECTIONA						
VPORO		N43°57.38′/W123°02.22					
	LOS ANGELES HELICOPTE	R CHART					
VPANA		N33°44.43′/W117°50.03					
VPART	MAGNOLIA	N33°51.45′/W117°58.92					
VPAUT	HWY 91 & 55	N33°50.63′/W117°49.57					
VPBOB	11W1 31 & 33	N33°59.60′/W117°21.45					
VPCAR		N33°49.90′/W118°17.23					
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61					
VPCOR	CONEJO CINADE OS TIWT TOT	N33°52.90′/W117°32.95					
VPCRX		N34°01.40′/W117°44.88					
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53					
VPDOW	OOD ON WINDS	N33°56.47′/W118°05.80					
VPELA		N34°00.98′/W118°10.35					
VPETY		N33°38.70′/W117°44.12					
VPFCB		N34°02.03′/W118°01.63					
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71′/W119°10.39					
VPGOL	<u> </u>	N34°09.33′/W118°17.37					
VPIMP		N33°55.85′/W118°16.85					
VPKAT		N33°48.23′/W117°54.22					
VPKEL		N34°03.92′/W117°48.40					
VPLAC		N34°03.75′/W118°14.93					
VPLLU		N34°03.85′/W117°17.82					
VPLQM	QUEEN MARY	N33°45.17′/W118°11.37					
VPLRT	SANTA ANITA RACE TRACK	N34°08.45′/W118°02.65					
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97′/W118°16.32					
VPMDR		N33°59.27′/W118°23.97					
VPNEW	NEWHALL PASS	N34°20.18′/W118°30.72					
VPNUY		N34°09.63′/W118°28.18					
VPPCH		N33°28.07′/W117°40.32					
VPPKC		N34°03.32′/W118°12.83					
VPPOR		N34°00.10′/W117°50.12					
VPRRT		N33°59.37′/W118°16.83					
VPSEP		N34°05.80′/W118°28.63					
VPSFR		N34°17.45′/W118°28.07					
VPSTC	SATICOY BRIDGE	N34°16.62′/W119°08.34					
VPSTK		N34°13.97′/W118°24.60					

VFR WAYPOINTS LOS ANGELES SECTIONAL CHART

> COLLOCATED VER CHECKPOINT LOCATION CONEJO GRADE US HWY 101 N34°12.54'/W118°59.61'

509

N34°09.76'/W119°02.53'

N34°13 71'/W119°10 39'

N33°39.32'/W118°00.25'

N33°50.75'/W118°23.88'

N34°00.83'/W118°17.27'

N33°50.58'/W117°26.85' N34°26.20′/W118°36.28′

N33°43.40'/W117°56.77'

N33°53.40'/W117°38.48'

N34°02.13'/W118°32.15'

N33°45.17'/W118°11.37'

N34°09.67'/W118°10.05'

N34°08.45'/W118°02.65'

N33°52.03'/W117°42.68'

N34°07.72'/W117°57.30'

N33°52.97'/W117°53.13'

N34°17.87'/W118°29.00'

N33°36.33'/W117°48.63'

N33°53.07'/W118°21.13'

N34°16.00′/W118°38.43′

N34°16.40′/W118°20.30′

N33°44.97'/W118°16.32'

N34°10.82'/W118°46.27'

N34°20.18'/W118°30.72'

N34°16.62′/W119°08.34′

N26°00.92'/W080°06.93'

N27°57.00′/W080°46.75′

N26°27.07'/W082°00.88' N26°09.28'/W081°20.70'

N28°22.57'/W082°11.25'

N27°37.70′/W082°09.10′

N27°19.00'/W080°44.17'

N27°58.67'/W082°49.83'

N26°08.78'/W080°28.00'

N26°25.40'/W081°29.67'

N27°43.50'/W082°44.67' N27°05.97'/W082°12.20'

N28°19.87'/W082°43.77'

N27°12.47'/W081°40.22'

N28°04.00'/W081°56.00'

N24°40.08'/W081°20.55' N24°49.07'/W080°49.17'

N25°58.57'/W080°08.17'

N26°28.30'/W080°26.75'

N25°50.67'/W080°55.18' N25°22.92'/W080°36.58'

N27°03.00'/W080°35.00'

CSILCHANNEL ISLANDS OXNARD FINANCIAL PLAZA

SATICOY BRIDGE N34°16.62′/W119°08.34′

LOS ANGELES TERMINAL AREA CHART/FLYWAY CHART N34°12.54′/W118°59.61′ CONEJO GRADE US HWY 101

CSU CHANNEL ISLANDS N34°09.76'/W119°02.53' GETTY CENTER N34°04.84'/W118°28.66'

BANNING PASS N33°56.05'/W116°59.63'

N34°08.87'/W117°34.33' CA ION PASS

VPI CC CHAFFEY COLLEGE

V/DLCD

N34°18.07'/W117°27.68'

VPI DI DISNEYLAND N33°48.72'/W117°55.13'

VPLDP DANA POINT N33°27.62'/W117°42.87'

VPI DS DODGER STADIUM N34°04.42'/W118°14.42'

91/605 INTERCHANGE N33°52.38'/W118°06.08' N34°07.10′/W118°18.02′

GRIFFITH PARK OBSERVATORY N33°51.42′/W118°17.10′

SIGNAL PEAK

WATER TANK

DADE CITY

NEWHALL PASS

SATICOY BRIDGE

HOLLYWOOD BEACH

CLEARWATER BEACH

ANDYTOWN TOLLGATE

ST PETE BEACH

LAKE PARKER

GULFSTREAM PARK

PUMPING STATION

HAWTHORNE & 405 FREEWAY

TUJUNGA WASH & FOOTHILL

MIAMI SECTIONAL CHART

VINCENT THOMAS BRIDGE

SANTA SUSANA PASS

110/405 FWYS

VPI FX HUNTINGTON PIER

KING HARBOR

I A COLISEUM

VPLGP

VPI HE VPLHP **VPLKH** VPI I C LAKE MATHEWS

VPI I M

WAYPOINT IDENT

VPCNG

VPCSII

V/DFDI

VPSTC

VPCNG

VPCSII

VPGTY

VPLBP

MAGIC MOUNTAIN MILE SOUARE PARK PRADO DAM

VPI MM VPI MS **VPLPD** VPI PP PACIFIC PALISADES **OUEEN MARY** ROSE BOWL SANTA ANITA RACE TRACK

VPI OM **VPLRB** VPLRT VPI SA

SANTA ANA CANYON **VPLSB** SANTA FE FLOOD BASIN **VPLSC** STATE COLLEGE SAN FERNANDO RESERVOIR

VPLSF VPLSP

VPI SR

VPI SS **VPLTW**

VPLVT VPLWT VPNFW VPSTC

VPACH

VPBOV

VPCLE

VPCTF VPDAD

VPDUT

VPDZE

VPEAR

VPFDY

VPFAH

VPKOE

VPI YY

VPMR0 **VPOBA**

VPRBI

VPRNI

VPWMO

VPGPE VPHRO VPIRR VPKFR

> RANGER STATION NE. 23 SEP 2010 to 18 NOV 2010

510 VFR WAYPOINTS

COLLOCATED VFR CHECKPOINT

HOLLYWOOD BEACH

GUI ESTREAM PARK

ANDYTOWN TOLLGATE

PUMPING STATION RANGER STATION

NEW ORLEANS SECTIONAL CHART

MIAMI TERMINAL AREA CHART/FLYWAY CHART

VPGPT PHILLIPS INLET

VPLIP VPMAI VPMOB VPRAM

WAYPOINT IDENT

VPACH

VPFDY

VPMRO

VPORA

VPRBI

VPRNL

VPRFR

VPRIV VPSAW

VPTHR

VPJAY

VPI YD VPROK

VPALL

VPAOU

VPARM

VPAWG

VPAZM

VPBAR

VPCCC

VPCNL

VPFRR

VPFTN

VPGLX

VPGPP

VPMAR

VPNRV

VPNTT

VPPIR

VPOTR

VPRVC

VPSMC

VPSOP

VPSSS

VPSTN

VPSTT

VPAGN

VPBPE

VPCJY

VPCOJ

VPDFA

VPFA7

VPEDZ

VPEGR

VPEOX

ALLENVILLE

ARROWHFAD MALL

ARIZONA MILLS

BARTLETT DAM

FIREBIRD LAKE

FOUNTAIN HILLS

GILA CROSSING

MARICOPA

NFW RIVER

SOUAW PEAK

TV ANTENNA

HOLIDAY SHORES

BUSCH STADIUM

WINFIELD DAM

WATER TANKS

GAS TANKS

ST PETERS

CANAL

AHWATUKEE GOLF COURSE

COUNTRY CLUB & CANAL

GLENDALE POWER PLANT

MESOUITE HIGH SCHOOL

OUINTERO GOLF COURSE

RIO VERDE COMMUNITY

SANTAN MOUNTAINS

SOUTH TEST TRACK

SOUTH MOUNTAIN COLLEGE

SUPERSTITION SPRINGS MALL

JEFFERSON BARRACKS BRIDGE

NE. 23 SEP 2010 to 18 NOV 2010

ST LOUIS TERMINAL AREA CHART/FLYWAY CHART

NORTH TEST TRACK

NEW YORK HELICOPTER CHART PHOENIX TERMINAL AREA CHART/FLYWAY CHART

AOUEDUCT PUMPING STATION

N30°49.65'/W089°07.42 N30°19.93'/W087°08.50 N40°59.00′/W073°07.00 N40°57.37′/W073°29.59

LUCATION

N26°00.92'/W080°06.93

N26°08 78' /W080°28 00

N25°58.57'W080°08.17'

N26°28.30'/W080°26.75

N25°50.67'/W080°55.18

N25°22.92'/W080°36.58

N30°25.95'/W089°05.62

N30°16.23'/W085°59.25

N30°50.02'/W084°56.63

N30°23.00′/W088°31.72

N30°18.95'/W089°35.88 N30°13.87'/W085°20.67

N30°54.85'/W087°57.82

N40°52.70′/W073°44.24

N33°20.97'/W112°35.20 N33°40.05'/W112°41.38 N33°38.52'/W112°13.48 N33°19.98′/W111°59.08 N33°23.43'/W111°57.88 N33°49.10'/W111°37.92 N33°30.73'/W111°50.37 N33°33.23'/W111°46.89

N38°32.08'/W090°22.42

N38°23.80′/W090°20.38

N38°55.00′/W089°56.00

N39°00.28'/W090°41.23

N38°29.18'/W090°16.47

N38°37.43′/W090°11.55

N38°45.30′/W090°34.87

N38°35.80′/W090°19.32

N38°47.17'/W090°39.25

N33°16.35'/W111°58.10 N33°36.12'/W111°42.72

N33°16.55'/W112°10.08 N33°33.27'/W112°13.00 N33°03.42'/W112°02.88 N33°20.53'/W111°49.58 N33°55.08′/W112°08.45 N33°03.50′/W111°55.83 N33°22.52′/W112°18.90 N33°49.53'/W112°23.58

N33°44.37'/W111°39.62 N33°23.02′/W112°02.12 N33°32.83'/W112°01.27 N33°23.50′/W111°41.37

N33°09.23'/W111°40.92

N32°56.25'/W111°59.67

N33°20.18'/W111°26.53

VFR WAYPOINTS WAYPOINT IDENT COLLOCATED VER CHECKPOINT LUCATION VPFAI

WATERLOO

HOWELL ISLAND N38°40.00′/W090°43.00′ N38°55.37'/W090°17.30' N38°35.60′/W090°26.92′ N38°32.30′/W090°27.80′ CHAIN OF ROCKS BRIDGE N38°45.88'/W090°10.42'

HORSESHOE LAKE N38°41.00′/W090°05.00′ PACIFIC N38°29.00'/W090°44.00' ST CHARLES N38°47.00′/W090°30.00′ SIX FLAGS N38°30.67'/W090°40.47' N38°37.50′/W090°11.00′ GATEWAY ARCH WOOD RIVER REFINERIES N38°50 00' /W090°05 00' N38°48.83'/W090°50.98' WENT7VII I F **IFRSFYVILLE** N39°07.00'/W090°20.00'

N38°38.00'/W090°17.00' FOREST PARK COLLIMBIA MILLSTADT MOSENTHEIN ISLAND SALT LAKE CITY HELICOPTER CHART

SAI TAIR BARN

VDEEV

VPGPF VPGVI

VPHRO

VPIRO

VP IMI

VPKNIV

VPLES

VPLIW

VPI XII

VPNSY

VPN7Y

VPPA7

VPRMO

VPWKO

VPXXI

VPYID

VPAIR

VPRFF

VPRRN

VPCAP

VPCHS VPCOP

VPCWY

VPCYN

VPFPC VPFPK

VPGFS

VPHVF **VPJRT**

VPKSI

VPI GN

VPMDH

VPMMT

VPMSH

VPNTP

VPOGE

VPOPS

VPPFN **VPPPT**

VPPV0

V/PRW/V

VPSLC

VPTIP

VPWBR

VPWRT

VPAIR

VPRFF

VPBRN

VPCAP

VPCHS

VPCOP

VPCVI

VPCWY

VPCYN

VPFPC

VPFPK

VPGFS

SOUTH INTERCHANGE STATE CAPITOL

PARLEYS CANYON

FRANCIS PEAK

KSI ANTENNA

GARFIELD STACK

SPAGHETTI BOWL

JORDAN RIVER TEMPLE

MCKAY DEE HOSPITAL

MICROWAVE TOWERS

GRAIN FI EVATOR

POWER STATION STATE PRISON

PROVO CANYON

WEBER CANYON

SOUTH TIP

SALTAIR

BARN

PROMONTORY POINT

POINT OF THE MOUNTAIN

I-15/I-80 INTERCHANGE

SOUTH INTERCHANGE

BINGHAM COPPER MINE

CENTERVILLE INTERCHANGE

STATE CAPITOL

CALISEWAY

PARLEYS CANYON

FRANCIS PEAK

GARFIELD STACK

FREE PORT CENTER

SALT LAKE CITY TERMINAL AREA CHART/FLYWAY CHART

NE. 23 SEP 2010 to 18 NOV 2010

LAGOON AMUSEMENT PARK

FREE PORT CENTER

CALISEWAY

BINGHAM COPPER MINE

N38°27.00′/W090°12.00′

N38°27.50'/W090°05.68' N38°43.00′/W090°12.25′ N40°44.85'/W112°11.22' N40°38.18'/W111°54.23'

N40°54.28′/W112°10.15′

N38°20 00' /W090°09 00'

N40°46.67'/W111°53.25' N40°42.28'/W112°05.92' N40°31.38'/W112°09.00'

N41°05.37'/W112°07.17' N40°42.67'/W111°48.10' N41°05.92'/W112°02.27' N41°01.98'/W111°50.30' N40°43.28'/W112°11.88' N40°43.50'/W111°54.22' N40°35.02'/W111°55.58' N40°59.08'/W111°53.57'

N40°46.80'/W112°05.80' N41°11.50′/W111°57.08′ N40°48.50'/W111°53.37' N41°01.67'/W112°02.47' N40°50.15'/W111°54.90' N41°03.57'/W112°14.23' N41°13.13'/W112°00.45' N41°20.38'/W112°02.78' N40°29.88'/W111°53.62' N41°12.28'/W112°25.73'

N40°27.42'/W111°54.83' N40°18.77′/W111°39.45′ N40°48.48'/W112°00.33'

N40°45.83'/W111°54.85' N40°50.93'/W112°10.92' N41°08.17'/W111°54.83' N40°38.00'/W112°03.33'

N40°44.85'/W112°11.22'

N40°38.18'/W111°54.23'

N40°54.28'/W112°10.15' N40°46.67′/W111°53.25′

N40°42.28'/W112°05.92'

N40°31.38'/W112°09.00'

N40°55.30'/W111°53.43'

N41°05.37'/W112°07.17'

N40°42.67'/W111°48.10'

N41°05.92'/W112°02.27'

N41°01.98'/W111°50.30'

N40°43.28'/W112°11.88'

WAYPOINT IDENT COLLOCATED VER CHECKPOINT INCATION VPHVE SPAGHETTI BOWL N40°43.50′/W111°54.22 **VPJRT** JORDAN RIVER TEMPLE N40°35.02′/W111°55.58 **VPKSL** KSL ANTENNA N40°46.80'/W112°05.80 VPLGN LAGOON AMUSEMENT PARK N40°59.08'/W111°53.57 VPMDH MCKAY DEE HOSPITAL N41°11.50′/W111°57.08 VPMMT MICROWAVE TOWERS N40°48.50′/W111°53.37 VPMSH N41°01.67'/W112°02.47 N40°50.15′/W111°54.90 VPNSI **VPNTP** N41°03.57'/W112°14.23 GRAIN ELEVATOR N41°13.13'/W112°00.45 POWER STATION N41°20.38'/W112°02.78 STATE PRISON VPPFN N40°29.88'/W111°53.62 N41°12.28′/W112°25.73 PROMONTORY POINT VPPTM POINT OF THE MOUNTAIN N40°27.42'/W111°54.83 N40°18.77'/W111°39.45 **VPPVO** PROVO CANYON N40°48.48'/W112°00.33 VPSI C I-15/I-80 INTERCHANGE N40°45.83'/W111°54.85 VPTIP SOUTH TIP N40°50.93'/W112°10.92 U OF U EVENTS CENTER N40°45.73'/W111°50.28 VPHOH **VPWRR** WEBER CANYON N41°08.17'/W111°54.83 **VPWBT** N40°38.00′/W112°03.33 HOGLE ZOO N40°45.00′/W111°48.95 VP700

VFR WAYPOINTS

VPLDP VPLSP VPOCN **VPSBC** VPSRI

512

VPSRM

VPSCF

VPSCP

VPSCR

VPSFR

VPSLJ

VPSMB

VPSMP

VPSMV

VPSMW

VPSOP

VPSOT

VPSPL

VPSPP

VPSOS

VPSRT

VPSSM

VPSSV

VPSTP

VPSVA

VPKBG

VPALT **VPANT**

VPRRR

VPCAL

VPCRT

VPCOY

VPCOZ

VPCRL

VPCRY

DANA POINT SIGNAL PEAK BARONA CASINO

BLACK MOUNTAIN

CRYSTAL PIER

IRON MOUNTAIN

LAKE JENNINGS

MOLINT SOLEDAD

MOUNT WOODSON

OTAY MESA PRISON

LOWER OTAY LAKE

POWER PLANT

SOUTH POINT LOMA

OUALCOMM STADIUM

DEL MAR RACE TRACK

SAN VICENTE ISLAND

KINGSBURY GRADE

ALTAMONT PASS

ANTIOCH BRIDGE

RENICIA BRIDGE

LAKE CHAROT

COYOTE HILLS

CAROUINEZ BRIDGE

CALAVERAS RESERVOIR

CRYSTAL SPRINGS CAUSEWAY

NE. 23 SEP 2010 to 18 NOV 2010

SAN MIGUEL MOUNTAIN

TORREY PINES GOLF COURSE

SAN FRANCISCO SECTIONAL CHART

SAN FRANCISCO TERMINAL AREA CHART/FLYWAY CHART

COWLES MOUNTAIN

SAN DIEGO TERMINAL AREA CHART/FLYWAY CHART

N33°27.62′/W117°42.87 N33°36.33'/W117°48.63 N33°14.15'/W117°26.63 N32°56.25'/W116°52.60 N33°05.18'/W117°18.55 N32°58.87'/W117°07.00 N32°48.55'/W117°09.17 N32°48.72'/W117°01.97 N32°47.77'/W117°15.42

N32°39.37'/W117°07.30 N32°58.25'/W116°57.33 N32°51.53'/W116°53.28 N32°45.57'/W117°12.22 N33°22.70′/W117°36.75 N32°50.40′/W117°15.10 N32°45.75'/W117°09.80 N33°00.52'/W116°58.23 N32°35.82'/W116°55.28

N32°37.73′/W116°55.38 N32°39.90'/W117°14.55 N33°08.25'/W117°20.23

N32°46.98'/W117°07.23 N32°58.58'/W117°15.95

N32°41.78'/W116°56.18 N32°55.53'/W116°55.00

N32°54.17'/W117°14.68

N33°11.48'/W117°16.38

N38°58.75'/W119°53.20

N37°44.35'/W121°35.42

N38°01.45'/W121°45.02

N38°02.50'/W122°07.45

N37°28.16′/W121°48.93

N37°43.68'/W122°06.94 N37°32.50′/W122°05.06

N38°03.66'/W122°13.52

N37°11.00′/W121°41.06

N37°30.56′/W122°21.10

VFR WAYPOINTS					
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION			
VPCSH	CAL STATE UNIVERSITY	N37°39.52′/W122°03.52′			
VPDAM	DEL VALLE DAM	N37°36.91′/W121°44.78′			
VPDLR		N37°07.00′/W121°47.06′			
VPDUB	DUBLIN	N37°42.06′/W121°55.36′			
VPEMB	EMBASSY SUITES	N37°26.05′/W121°53.83′			
VPGGF	GOLDEN GATE FIELDS	N37°53.07′/W122°18.71′			
VPGIL	GILROY	N37°01.37′/W121°33.99′			
VPHHH	HAMILTON	N38°03.58'/W122°30.66'			
VPKGO	KGO	N37°31.58′/W122°06.10′			
VPLEX	LEXINGTON RESERVOIR	N37°11.66′/W121°59.18′			
VPMID	MID-SPAN SAN MATEO BRIDGE	N37°36.28′/W122°11.81′			
VPMOR	MORMON TEMPLE	N37°48.46′/W122°11.95′			
VPNUM	NUMMI PLANT	N37°29.56′/W121°56.58′			
VPPAC		N37°38.00′/W122°32.07′			
VPPRU	PRUNEYARD	N37°17.33′/W121°56.01′			
VPSAR	SARATOGA	N37°15.26′/W122°02.33′			
VPSLA	SLAC/LINEAR ACCELERATOR	N37°24.75′/W122°14.35′			
VPSTB	STINSON BEACH	N37°54.45′/W122°40.41′			
VPSUN	SUNOL GOLF COURSE	N37°34.85′/W121°53.23′			
VPUTC	U.T.C.	N37°13.93′/W121°41.35′			
VPWAL	WALNUT CREEK	N37°53.78′/W122°04.30′			
VPWAM		N37°30.28′/W122°10.00′			
VPWFR	CEMENT PLANT	N37°30.88′/W122°12.26′			
	TAMPA/ORLANDO TERMINAL AREA CHAF	RT/FLYWAY CHART			
VPBOV		N27°57.00′/W080°46.75′			
VPCNY		N28°30.00′/W080°45.00′			
VPDAD	DADE CITY	N28°22.57′/W082°11.25′			
VPDFI		N29°00.17′/W081°20.85′			
VPDUT		N27°37.70′/W082°09.10′			
VPEAR	CLEARWATER BEACH	N27°58.67′/W082°49.83′			
VPFFU		N28°57.08′/W081°00.33′			
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′			
VPHUC		N28°19.87'/W082°43.77'			
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′			
VPLEV		N28°48.00′/W080°52.00′			
VPLJA		N29°00.00′/W080°51.00′			
	WASHINGTON SECTIONAL C	HART			
VPACE		N38°07.82′/W076°48.75′			
VPAXI		N38°34.57′/W076°20.38′			
VPBRA		N36°13.75′/W076°08.08′			
VPGCE		N36°03.90′/W076°36.42′			
VPWZO		N36°00.87′/W075°40.07′			
		•			

513

VOR RECEIVER CHECK

VOR RECEIVER CHECKPOINTS AND VOT TEST FACILITIES (VOT)

The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

NOTE: Under columns headed Type of Checkpoint & Type of VOT Facility G stands for ground. A/ stands for airborne followed by figures (2300) or (1000-3000) indicating the altitudes above mean sea level at which the check should be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

CONNECTICUT

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Carmel (Danbury Muni)	116.6/CMK 110.4/MAD 110.4/MAD	A/1500 A/1500 A/1500	050 076 345	6.7 9.4 13.4	Over apch end of Rwy 08. Over small hangar. Over small hangar.
Norwich (Windham)	110.4/MAD 110.0/ORW	A/1500 A/1500	339	13.9	Over intersection of rwy and twy.
Putnam (Danielson)	117.4/PUT	A/1300	211	8.5	Over int of ramp taxiway and rwy.

VOR TEST FACILITIES (VOT)

Facility Name		Type VOT	
(Airport Name)	Freq.	Facility	Remarks
Bradley Intl	111.4	G	
Bridgeport (Igor I. Sikorsky Mem)	109.25	G	
Groton (Groton-New London)	110.25	G	
Hartford (Hartford-Brainard)	108.2	G	

DELAWARE

VOR RECEIVER CHECK POINTS

		Type			
		Check	Azimuth	Dist.	
		Pt.	from	from	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Smyrna (Delaware Airpark)	111.4/ENO	A/1000	267	3.6	Over thid Rwy 27.
Wilmington (New Castle)	114.0/DQ0	G	170	0.5	On runup pad Rwy 01.
		G	284	0.6	On Twy 'K' at Rwy 09.
		G	067	0.5	On Twy 'K' at Rwy 27. OTS indef.
Wilmington (Summit Airpark)	114.0/DQ0	A/1200	219	10.8	Over rotating bcn. OTS indef.

Azimuth

from

Fac

Dist.

from

Fac N.M.

3.8

4.5

6.5

5.7

9.6

Rwy 14.

Checkpoint Description

On runup area Rwy 33. Over Twy C and dsplcd thid

Over intersection of rwys.

Over intersection of rwys.

Remarks

Over intersection of rwy and strip. OTS indef.

515

VOR RECEIVER CHECKPOINTS Type

Check

Pt.

Gnd

VOR RECEIVER CHECK

MAINE

Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag
Bangor (Bangor Intl)		G A/1300	153 267
Presque Isle (Caribou Muni)	116.4/PQI	A/1700	051
Presque Is)	, .	A/2000 A/1300	180 164

Facility Name

(Airport Name)

Salisbury (Salisbury-Ocean City Wicomico

Rgnl) 111.2/SBY

VOR TEST FACILITIES (VOT) Type VOT Facility

Portland Intl Jetport...... 111.0 G G

Freq.

	MAR	YLAND			
VO	R RECEIVER	R CHECK	POINTS		
Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Frederick (Frederick Muni)	109.0/FDK	G	035	0.6	On runup pad apch end Rwy 23.
		G	359	0.6	Intersection Twys H and
Frederick (Montgomery County Airpark) Hagerstown (Hagerstown Rgnl-Richard A	109.0/FDK	A/2000	155	17.2	Over apch end Rwy 14.
Henson Fld)	109.8/HGR	A/1700	089	5.3	Over new ATCT.
Salisbury (Ocean City Muni)	111.2/SBY	A/1300	109	18.6	Intersection of twy and Rwy 32.

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G

221

0.7

Runup pad Rwy 05.

Facility Name

(Airport Name)

VOR RECEIVER CHECK MASSACHUSETTS

VOR RECEIVER CHECKPOINTS

Type

Check

D+

A/1500

G

G

Facility

Azimuth

from

089

216

242

Dist

from Fac N.M.

1

13.0

10

18.8

11.8

0.7

1.9

12

Dist.

from

Fac.

N.M.

6.0

3.4

15.8

5.0

5.1

0.4

1.5

126

Dist.

from

Fac.

N.M.

11.4

18.9

9.0

5.2

6.8

4.5

048

054

289

236

080

1.9

Checkpoint Description

Over intersection of rwys.

Over intersection of Rwys 11-29 and 15-33.

On runup block for Rwy 06

On runup area at apch end

Remarks

Checkpoint Description

Over ski jump on W side of

Hold short line Rwy 18-36

Over intersection of rwy and twy.

Over intersection of Rwys

Checkpoint Description

Over intersection Rwys 10-28 and 14-32.

Over apch end Rwy 06.

Over apch end Rwy 06.

Over apch end Rwy 11.

Over apch end Rwy 19.

Over ATCT.

07-25 and 18-36.

On south runup pad.

On Bravo-Two twv.

North runup pad.

Over windsock.

road

Over apch end Rwy 10.

Over intersection of twy and rwy.

Rwv 24.

Over intersection of twy and rwv.

Over parachute jump circle.

From the facility.

		Gnd.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	
Barnes (Barnes Muni)	113.0/BAF	G	207	
Gardner (Fitchburg Muni)	110.6/GDM	A/1500	102	
Gardner (Metropolitan)	110.6/GDM	A/2000	097	
Gardner (Orange Muni)	110.6/GDM	A/1500	292	
Gardner (Worcester Rgnl)	110.6/GDM	A/2000	167	

Marthas Vineyard (Marthas Vineyard) 114.5/MVY

Nantucket (Nantucket Memorial) 116.2/ACK

Putnam (Southbridge Muni) 117.4/PUT A/1700 329

VOT TEST FACILITIES (VOT) Type VOT

Frea

Laurence G. Hanscom 110.0 Gen. Ed. Lawrence Logan Intl. 111 0 Worcester Rgnl G 108 2

NEW HAMPSHIRE

VOR RECEIVER CHECKPOINTS

Type

Check Azimuth

from Pt

Gnd. Fac.

Freq/Ident AB/ALT Mag

Facility Name (Arpt Name) Berlin (Berlin Rgnl) A/2600 190 110.4/BML

110.4/BML G 191

Gardner (Jaffrey Arpt-Silver Ranch) 110.6/GDM A/2000 023 Lebanon (Lebanon Muni) A/1600 246 113.7/LEB

113.7/LEB G 248 Pease (Portsmouth Intl at Pease)..... 116.5/PSM G 015

G 157

Pease (Skyhaven) 116.5/PSM A/1500 356

NEW JERSEY

VOR RECEIVER CHECKPOINTS

Type

Check Azimuth

Pt. from Fac.

A/1000

A/1500

A/1200

A/1200

A/1500

Gnd. Freq/Ident AB/ALT Mag Facility Name (Arpt Name) Cedar Lake (Millville Muni) 115.2/VCN A/1500 215

113.4/CYN

113.8/RBV

114.8/SIE

Coyle (Lakewood) 113.4/CYN

Coyle (Robert J. Miller Air Park)

Robbinsville (Trenton-Robbinsville)

Sea Isle (Cape May County)

VOR RECEIVER CHECKPOINTS Type Check Azimuth Pt. from Gnd Fac Facility Name (Arpt Name) AB/ALT Mag Freq/Ident Binghamton (Greater Binghamton/Edwin A Link Fld) 075

Binghamton (Tri-Cities)

Carmel (Westchester County)

Dunkirk (Chautaugua Co/Dunkirk)

Glens Falls (Floyd Bennett Memorial)

Groton (Elizabeth Field)

Huguenot

Huguenot (Randall)

Ithaca (Tompkins Rgnl)

Jamestown)

Kingston (Sky Acres)

Kingston (Sky Park)

Poughkeepsie (Dutchess County)

Rockdale (Oneonta Muni)

Rockdale (Sidney Muni)

Rochester (Greater Rochester Intl)

Saranac Lake

Watertown (Watertown Intl)

Albany County

Buffalo Niagara Intl

New York (Long Island MacArthur)

Bradford (Bradford Rgnl)

Clarion (Clarion County)

East Texas (Allentown Queen City Muni)

Facility Name (Arpt Name)

Facility Name

(Airport Name)

Jamestown (Chautaugua County/

112.2/CFB G 112.2/CFB A/2000 116.6/CMK A/1500 116.2/DKK G

110.2/GFL

110.85/GON 116.1/HUO

116.1/HUO

111.8/ITH

114.7/JHW

117.6/IGN

117.6/IGN

114.3/PWL

112.6/RKA

112.6/RKA

110.0/ROC

109.2/SLK

109.8/ART

Frea.

Freq/Ident

116.6/BFD

112.9/CIP

110.2/ETX

VOR RECEIVER CHECK

NEW YORK

G A/1200 A/3000 A/1500 G

A/2500

A/2500

A/1500

A/1500

A/3000

A/2200

G

A/3000

G

VOR TEST FACILITIES (VOT)

Type VOT

Facility

G

G

Pt.

Gnd

AB/ALT

G

A /3000

A/1200

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PENNSYLVANIA VOR RECEIVER CHECKPOINTS Type Check

070

010

248

078

229

98

141

046

Azimuth

from

Fac

Mag

321

286

103

Dist.

from

Fac

N.M.

1 1

10.9

9.2

170

215

043

0.5 4 8 6 2 8.8 0.8 6.2 5.0 18.8 15.2

25

12.5

0.6

4.2

3.0

Dist.

from

Fac

N.M.

7.6

5.0

14 0

0.5

Over intersection of rwys. Over monument on hill. Over apch end Rwy 08. On twy apch end Rwy 32. Over hangar NE corner of Over intersection of twy and Rwy 17-35. Over apch end Rwy 01. Over intersection Rwys 15-33 and 06-24. Over hangar. Over hangar. On Twy 'K' between Twys 'F' and 'J'. (Near de-ice Over microwave tower on Mt Pisgah.

Checkpoint Description

On north ramp.

Over rwy intersection.

On twy adjacent to the apch end Rwy 24.

On runup area Rwy 19.

Over center of arpt.

517

On ramp in front of administration building.

Remarks Unusable runup and hold areas Twy M. Unusable

runup pad, holding area

and apch end of Rwy 19.

Checkpoint Description

On SE twy midway between ramp and Rwy 32.

Over center of interstate bridge/river.

Over intersection of Rwys

07-25 and 14-32. Checkpoint unavbl indef.

Facility Name (Arpt Name)	Freq/Ident	Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Erie (Erie Intl/Tom Ridge Fld)	109.4/ERI	G	060		6.1 NM on twy at apch end Rwy 06. Ground receiver
Hazelton (Hazelton Muni)	109.4/HZL	G	093		checkpoint OTS. On short twy midfield. VOR ground checkpoint OTS indef.
Lancaster (Lancaster)	117.3/LRP	G	306	0.5	On Twy M.
Milton (Bloomsburg Muni)	109.2/MIP	A/1500	108	10.3	Over threshold Rwy 08.
Philadelphia)	112.0/PNE	G	215		Twy F.
Philipsburg (Mid-State)	115.5/PSB	G	256	4.5	On twy near intersection of Rwys 06-24 and 16-34.
Philipsburg (University Park)	115.5/PSB	A/2500	132	7.6	Over intersection of Rwys 06-24 and 16-34.
Pottstown (Pottstown Muni)	116.5/PTW	A/1500	303	5.6	Over E hangar. VOR airborne checkpoint OTS indef.
Ravine (Muir AAF)	114.6/RAV	A/2500	179	7.7	Over water twr ½ NM NE of rwy.
Ravine (Schuylkill County/Joe Zerbey)	114.6/RAV	A/2000	060	13.9	Over intersection of Rwys 11-29 and 04-22. VOR airborne checkpoint OTS indef.
Solberg (Doylestown)	112.9/SBJ	A/1500	240	22.6	Over apch end Rwy 23.
Stonyfork (Wellsboro Johnston)	108.6/SFK	A/3600	111	6.5	Over 2558' tower.
Wilkes-Barre (Pocono Mountains Muni)	111.6/LVZ	A/3000	131	16.2	Over intersection of Rwys 05–23 and 13–31.
V	OR TEST F	ACILITIES	(VOT)		
Facility Name		Type VOT			
(Airport Name)	Freq.	Facility			Remarks
Harrisburg Intl	110.0	G			
	109.8	G			Unusable west of Twy Y.

RHODE ISLAND

VOR RECEIVER CHECKPOINTS

Type Check

Azimuth Pt. from Gnd. Fac.

Freq/Ident AB/ALT Mag

Facility Name (Arpt Name) Providence (Newport State) 115.6/PVD A/1400 164 Providence (North Central State) 115.6/PVD A/1500 360

110.85/GON 129 A/1800

Groton (Block Island State) **VOR TEST FACILITIES (VOT)**

Facility Name

(Airport Name)

State).....

Type VOT

Freq. Facility

Providence (Theodore Francis Green 108.2 G Dist.

from

Fac.

N.M.

13.4

12.2

23.5

Checkpoint Description

Over intersection of rwys.

Over intersection of rwys.

Remarks

Over terminal building.

	VOR RECE	IVER CHE	CK		519
V	VER OR TEST FA	MONT CILITIES	(VOT)		
Facility Name (Airport Name)	Freq.	Type VOT Facility			Remarks
Burlington Intl 1	109.0	G			
		GINIA			
VOF	R RECEIVER	R CHECK	POINTS		
Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
Cape Charles (Campbell Field)	112.2/CCV 112.2/CCV	A/1000 A/1500 G	050 010 340	8.9 28.4	Over rwy intersection. Over apch end Rwy 02. At intersection of Twy A and hangar row near Twy E.
Flat Rock (Farmville Rgnl)	113.3/FAK	A/1600	257	31	Over intersection of twy and rwy.
Lynchburg (Lynchburg Rgnl-Preston Glenn Field)	109.2/LYH	G	026	5.0	West runup area adjacent to Rwy 22.
Norfolk (Norfolk Intl)	116.9/ORF	G	031		At center of twy E 250' NW of centerline of Rwy 23.
Richmond	,	A/2100 G	306 005	8.5 .9	Over 1054' twr. On run up area Rwy 16 Twy.
		G	344	.9	On twy in front of Aeronautical Services hangar.
		G	138	.7	Twy front of Army Guard ramp.
		G	270	.7	On Twy J between Twys A and T.
South Boston (Danville Rgnl)		A/1500	255	16.8	Over terminal building.
VOI	WEST ۱ R RECEIVER	VIRGINI			
VOI	K KECEIVLI		PUINTS		
Facility Name (Arch Name)	Eros /Idont	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac.	Dist. from Fac. N.M.	Charlesiat Description
Facility Name (Arpt Name) Lewisburg (Greenbrier Valley)	Freq/Ident 116.05/LWB	G G	Mag 236	.7	Checkpoint Description On Twy A northwest on Twy E.
Martinsburg (Eastern West Virginia Rgnl Shepherd Fld)	112.1/MRB	G G G	281 284 284	6.2	At apch end Rwy 35. D twy south of Rwy 08–26. Twy C intersection with
		G	287	6.5	Rwy 08–26. In front of twr on twy A. VOR receiver checkpoint OTS.
Morgantown (Morgantown Muni-Walter L. Bill Hart Fld)	111.6/MGW	G	337	5.8	Intersection of Twys A and
Parkersburg (Mid-Ohio Valley Rgnl)	108.6/JPU	G	211°	6.3	C. Intersection of Twy A and

G

G

Type VOT

Facility

G

VOR TEST FACILITIES (VOT)

NE. 23 SEP 2010 to 18 NOV 2010

Freq.

208

223

6.5

5.9

Twy D.

28.

ramp.

Twy J and apch end Rwy

On twy on east side of

Remarks

Wheeling (Wheeling Ohio Co) 112.2/HLG

Facility Name

(Airport Name)

520

PARACHUTE JUMPING AREAS

The following tabulation lists all reported parachute jumping sites in the area of coverage of this directory. Un otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. The busiest period activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the local listed. Jumps within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact the nearest FSS, towe ARTCC.

Qualified parachute jumping sites will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jump area is charted.

To qualify for charting, a jump area must meet the following criteria:

- (1) Been in operation for at least 1 year.
- (2) Operate year round (at least on weekends).
- (3) Log 4,000 or more jumps each year.

In addition, jump sites can be nominated by FAA Regions if special circumstances require charting.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
LOCATION	•	ALIIIODE	ILIMANNS
	CONNECTICUT		
(c) Danielson Arpt	8 NM; 211° Putnam	12,500	5 NM radius. Weekends and holidays.
(c) Ellington Arpt	17 NM; 025° Hartford	15,000	Fri, Sat, Sun, and occasional weekdays. 0.25 NM radius P Stone target
Harwinton	25 NM; 300° Hartford	7,200	0700-SS weekends.
	DELAWARE		
Georgetown, Sussex Co. Arpt	10 NM; 230° Waterloo	12,500	0900-SS Weekends; 1700-SS Wednesday.
Selbyville, Warrington Fld	17 NM; 079° Salisbury	15,000	Weekends and holidays.
(c) Western Suxxex/Booth Fld	12 NM; 356° Salisbury	12,000	5 NM radius. SR-SS daily.
	MAINE		
(c) Lebanon	13 NM; 275° Kennebunk	14,000	0800-SS daily.
Millinocket Muni Arpt	9.5 NM; 319° Millinocket	14,000 AGL	5 NM radius. Daily SR-SS.
	MARYLAND		
Accident	14 NM; 275° Grantsville		
Edgewood	29 NM; 056° Baltimore	10,000	Weekends, evenings, occasion weekdays
Gambrills, Dairy Farm Drop Zone	7 NM; 198° Baltimore	1300 AGL	0.5 NM radius. Weekends-November thru Ap
Long Greene Drop Zone	21 NM; 038° Baltimore	10,000 AGL	0.5 NM radius. Weekends.
(c) Ocean City Muni Arpt	18 NM; 108° Salisbury	15,000	3 NM radius. 1 May-30 Nov continuous.
Patuxent River NAS (Trapnell Fld)	1.2 NM; 243° Patuxent	Unrestricted	0.25 NM radius. 1600-SS Mon- 0800-SS Sat, Sun, Holidays
	0.7 NM; 303° Patuxent	Unrestricted	0.25 NM radius.
Sumang Drop Zone	20.3 NM; 286° Baltimore	3,000 AGL	0.4 NM radius. Weekends
Tewey Drop Zone	24 NM; 023° Baltimore	10,000 AGL	1 NM radius. Weekends
Unity Drop Zone	20 NM; 292° Baltimore	3,000 AGL	0.4 NM; radius. Weekends
	MASSACHUSETTS		
(c) Ft. Devens, Turner Drop Zone	18 NM; 115° Gardner	4,000 AGL	.5 NM radius. Daily SR-SS (occasionally nights) (occasionally to 20,000'.)
Marston Mills	20 NM; 045° Marthas Vineyard	10,000	1 NM radius 0700-SS daily
(c) Montague, Turners Falls Arpt Natick Laboratory Sudbury		12,500 AGL 4,000 AGL	5 NM radius. SR-SS daily. 0.25 NM radius. 0800-1700

NE. 23 SEP 2010 to 18 NOV 2010

Mon-Fri

1 NM radius. Thu-Sun and holidays. SR-one hr after SS. Boston Center 123.75

3 NM radius. Daily SR-SS

3 NM radius. SR-SS Daily.

Continuous, Heavy equip and paratroopers

1.5 NM radius. Daily SR-SS.

0.3 NM radius. Daily SR-SS. Cargo

drops ngts 2000' and below

frequently ngt ops.

ALTITUDE

14.000

14,000

12,500

15,000

12.000'

10.000

12,000

13.500

13.000

14.000

1.000 AGL

14.500

10.000 AGL

13.000

15,000 AGL

22,000

18.000

14.000

13.500

14.000

4.900

12,000

13,000 AGL

10,000

(c) Orange Muni Arpt...... 10 NM; 292° Gardner.....

(c) Lakehurst NAES (Maxfield Fld) 0.9 NM; 280° Navy Lakehurst

DISTANCE AND RADIAL FROM

NEAREST VOR/VORTAC

TACAN **NEW YORK**

(c) Sussex 9 NM; 350° Sparta...... (c) Albion, Pine Hill Arpt 22 NM; 055° Buffalo Arcade Tri-Co Arpt 24 NM; 162°Buffalo Bloomingburg, Shan-Wan-Ga Valley Arpt 13 NM; 050° Huguenot......

(c) Duanesburg Arpt 14 NM; 280° Albany

LOCATION

(c) East Moriches, Spadaro Arpt 7 NM; 170° Calverton

Fort Drum 23 NM: 060° Watertown

(c) Lexington-Prattville. Mahen Arpt..... 26 NM: 089° De Lancev..........

Rhinebeck, Old Rhinebeck Arpt............ 19 NM; 323° Pawling.............. (c) Scotia, Mohawk Valley 12 NM/318° Albany

West Bloomfield, Fort Hill Arpt 9 NM; 070° Geneseo..... Westhampton Beach, Francis S Gabreski 10NM; 130° Calverton.....

NE. 23 SEP 2010 to 18 NOV 2010

15.000 13.000' AGL

10,000

14.500 AGL

0800-1 hr after SS Sat, Sun & holidays; occasional ngt till 2400 1NM radius. Tue thru Fri

15-Oct 15. Daily, SR-SS. 1-Nov 30 1200-1 hr after SS Wed-Fri:

occasional ngts. other days.

1.5 NM radius. Daily 0700-SS. 2 NM radius, 0800-1 hour after SS. Wed thru Sun and holidays. Sat, Sun, and Wed.

5 NM radius, 0900-2100 SR-SS. 5 NM radius. 0900-SS daily. 2 NM radius. Daily SR-SS.

3 NM radius, SR-SS daily, 1 NM radius, 0800-SS Sat and Sun. 1600-SS Wed. 1 NM radius, SR-SS Mon-Fri. 4 NM radius, Daily SR-SS. 5 NM radius. Weekends. 5 NM radius. Daily SR-SS. occasionally til 2400 3 NM radius. SR-SS Fri, Sat, Sun & holidays. Occasionally other davs 3 NM radius, SR-SS daily, 5 NM radius. SR-SS daily;

1000-1400 13,000' to sfc and

2 NM radius. Weekdays 1200-SS, weekends, occasionally,

1400-2200 8,000' to sfc.

521

3NM radius. Sat, Sun and holidays SR-SS, occasional ngts and 2 NM radius. 0600-2400 daily. 3 NM radius, Daily SR-2400. 2 NM radius. SR-SS Sat-Sun Jun 5 NM radius. 0800-2400 daily. 5 NM radius. SR-SS daily Apr 1 NM radius. Daily 1200-0200.

(c) East Stroudsburg.

LOCATION

Stroudsburg-Pocono Arpt (c) Fort Indiantown Gap-Muir AAF.

Cold Steel Drop Zone

(c) Jeannette, Greensburg Jeannette

Rgnl

Littlestown, Kingsdale Airpark

Meadville, Port Meadville

(c) Mt. Joy/Marietta, Donegal Springs

(c) Blackstone, Allen C. Perkinson/

(c) Fort A. P. Hill Bowling Green Drop

PARACHUTE JUMPING AREAS

DISTANCE AND RADIAL FROM MAXIMUM

NEAREST VOR/VORTAC ALTITUDE PENNSYLVANIA

(c) Chambersburg Franklin Co Rgnl Arpt 14NM: 087° St Thomas.....

13.4 NM: 291° Stillwater

6.7 NM: 172°Ravine.....

19 NM: 089° Allegheny.....

13 NM: 345° Westminster

19 NM; 311° Franklin

RHODE ISLAND

VERMONT

VIRGINIA

NE. 23 SEP 2010 to 18 NOV 2010

(c) Burgettstown, Starveggi Drop Zone.. 9 NM: 042° Wheeling WV

Dovlestown 8 NM: 303° Yardlev

(c) Freedom, Kindelberger Landing Strip 8.5 NM: 175° Ellwood City

(c) Germansville, Flying M Aerodrome ... 9 NM; 003° East Texas (c) Grove City Arpt 19.3 NM; 011° Ellwood City

(c) Hazleton Muni Arpt 6 NM; 081° Hazleton

Jersey Shore, Hinaman Acres Arpt 23 NM; 240° Williamsport

(c) Perkasie, Pennridge Arpt 15.9 NM; 060° Pottstown

(c) Tunkhannock, Skyhaven Arpt 19 NM; 333° Wilkes-Barre

(c) Worthington, J.T. Willie Arpt 25 NM; 098° Ellwood City

Greene, Riconn Arpt 15 NM; 060° Norwich

(c) Newport State 13.3 NM; 164° Providence

(c) Pawtucket, North Central State Arpt 12 NM; 001° Providence.......

(c) Addison, Ass-Pirin Acres Arpt...... 21 NM; 219° Burlington......

Shelburne Arpt 3 NM; 240° Burlington

BAAF...... 16 NM; 355° Lawrenceville

(c) Fort Lee 12 NM; 262° Hopewell

(c) Fort Pickett Dove Drop Zone 19 NM; 009° Lawrenceville

Forest, New London Arpt 5 NM; 274° Lynchburg

11 500 AGI 12.500 14.500

14.500

12.500

14.000

15.000

14.500

12.000

13.000

10.500

12,500

15.000

12,000

14.500

13.500 AGL

14.000

12.500

10.000

13.000

12,000

15,000

12.500 AGL

12,500 AGL

15.000

11.000

2000 AGL

15.000 AGL 15.000 800-2000 AGL

2NM radius, SR-SS daily, 4NM radius, Mar-Nov, Fri-Sun SR

SS Daily SR-SS

Sat and Sun SR-SS 2.5 NM radius, 0600-2200 daily, radius

1300-2359.

1000-2100.

by NOTAM.

Daily SR-SS.

1-Nov 30.

occasional ngts.

Frequent night jumps.

2 NM radius. Daily SR-SS.

1 NM radius. Continuously. Frequent night drops.

3 NM radius, 0800-dusk,

Drop Zone 1500 yards by 1000

1 NM radius, Daily,

0.5 NM radius. Daily.

yards. Daily.

Daily SR-SS.

By NOTAM only, Military use, 5 NM 3 NM radius. Weekends and and occasional ngts. 5 NM radius, Wed-Sun 1500-SS weekdays

REMARKS

1 NM radius. Tue-Thur 1030-2200

occasionally (by notam) Fri-Sun

5 NM radius, SR-SS daily,

0700-1800

holidays SR-SS, Wed 1600-SS, 1 NM radius, 0900-SS daily,

3 NM radius, 0800-1900 EST. 0900-2230 EDT daily. SR-SS weekends and holidays: 1 NM radius, 1 Apr-31 Oct, Wed 1700-2100, Sat/Sun Tue and Thur 1600-SS: Sat and Sun 0800-SS. 2 NM radius, 0900-2000 daily, Weekends SR-SS. 2 NM radius. SR-SS daily. 5 mi radius. Extensive skydiving activities 1600-2100 weekdays and 0900-2100 weekends from surface to 12,000 ft MSL.

5 NM radius. SR-SS daily, nights 5 NM radius. SR-SS daily. 1 NM radius. Weekends and

holidays SR-SS, Fri 2200-SS, 1 NM radius, SR-SS daily Apr 3 NM radius, 0800-1 hour after SS daily. Mar 27-Dec 1. 5 NM radius. SR-SS daily.

11,000 12,000 AGL 2,500 AGL

LOCATION

(c) West Point, Middle Peninsula

Moneta, Smith Mountain Lake Arpt...... 19.2 NM; 246° Lynchburg.......

(c) Norfolk Intl Arpt 8.5 NM; 085° Norfolk

Oceana NAS 1.0 NM: 228° Oceana

(c) Orange Co Arpt 14.9 NM: 026° Gordonsville

(c) Somerville, Hartwood Arpt............ 15 NM: 137° Casanova

(c) Suffolk Executive Arpt 20 NM; 104° Franklin

Warrenton, Flying Circus Aerodrome 8.5 NM; 132° Casanova

Rgnl 4.4 NM; 340° Harcum

(c) Arthurdale, Titus Field 5 NM; 175° Morgantown

Morgantown, Bacon Drop Zone 5 NM; 150° Morgantown

PARACHUTE JUMPING AREAS

WEST VIRGINIA

ALTITUDE

13.500

13,000

12.500

15.000

10.000

13.000

13,500

7,000

10.000

14.000

15.000 AGL

15,000

10.000 AGL

10.000 AGL

10.000 AGL

12.500 AGL

10.000 AGL

12.500 AGL

REMARKS 3 NM radius. SR-SS Fri, Sat, Sun,

and holidays.

weekends

Mon-Fri during daylgt hrs.

Sat and Sun 0800-1200

3 NM radius, Daily SR-SS. frequently ngt ops.

1 NM radius unscheduled

5 NM radius. SR-SS daily.

Sat/Sun, June 7-Oct 25,

SR-SS weekends and holidays.

1 NM radius. Daily 0900-2100.

1 NM radius. Weekdays and

0.3 NM radius. Weekends.

0.5 NM radius. Weekends.

0.5 NM radius. Weekends.

0.3 NM radius. Weekends.

0.3 NM radius. Weekends.

1 NM radius. Weekends.

1000-1959.

1300-SS daily.

holidavs

2 NM radius. Weekends, holidays, occasionally other weekdays summer months.

murgantown, bount brop Zone	12 NW, 140 WORGANDWII	12,500 AGL	I MWI Taulus, Weekellus.
Morgantown, Float Drop Zone	13 NM; 110° Morgantown	12,500 AGL	0.5 NM radius. Weekends.
Morgantown, Guide Drop Zone	13 NM; 080° Morgantown	12,500 AGL	0.5 NM radius. Weekends.
Morgantown, Melon Drop Zone	13 NM; 097° Morgantown	12,500 AGL	0.5 NM radius. Weekends.
Morgantown, Piker Drop Zone	20 NM; 135° Morgantown	12,500 AGL	0.3 NM radius. Weekends.
Ravenswood, Jackson Co Arpt	41 NM; 215°Parkersburg	12,500 AGL	1000-SS Weekends.
Ripley, Evans Drop Zone	12 NM; 070°Henderson	12,000	1 NM radius. 0800-SS local, weekends.
Summersville Arpt	15 NM; 352° Rainelle	14,500	5 NM radius daily SR-SS.
Westover, Blue Horizon Drive-In	13 NM; 320° Morgantown	12,500	Weekends and holidays SR-SS.
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MISCELLANEOUS

The purpose of this bulletin is to provide major changes in aeronautical information that have occurred since the last publication date of each Sectional Aeronautical, VFR Terminal Area, and Helicopter Route Charts listed. The general policy is to include only those changes to controlled airspace and special use airspace that present a hazardous condition or impose a restriction on the pilot, and major changes to airports and radio navigational facilities, thereby providing the VFR pilot with the essential data necessary to update and maintain chart currency. The data is grouped by type and then by effective date. When a new edition of the Aeronautical Chart is published, the corrective tabulation will be removed from this bulletin. Inasmuch as this Bulletin provides major changes only, pilots should consult the airport listing in this directory for all new information. Users of U.S. World Aeronautical Charts (WAC) and U.S. Gulf Coast VFR Aeronautical Charts should consult the appropriate Sectional and VFR Terminal Area Charts for revisions.

Military Training Routes (MTRs) are shown on Sectional Aeronautical Charts, VFR Terminal Area, and Helicopter Route Charts. Only the route centerline, direction of flight and the route designator are shown — route widths and altitudes are not shown. Since these routes are subject to change every 56 days and the charts are reissued generally every 6 months, routes with a change in the alignment of the charted route centerline will be listed in this Aeronautical Chart Bulletin below. You are advised to contact the nearest FSS for route dimensions and current status for those routes affecting your flight.

BALTIMORE-WASHINGTON HELICOPTER ROUTE CHART 8th Edition, 30 Jul 2009

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OBSTRUCTIONS
27 Aug 2009 - 3 Jun 2010 No Major Changes.
29 Jul 2010 Add obst 688'MSL (348'AGL) UC, 39°28'15"N, 76°39'44"W.
23 Sep 2010 No Major Changes.
AIRPORTS
227 Aug 2009 No Major Changes.
22 Oct 2009 Change CTAF 122.9 to 123.025 at PIER 7 heliport. 39°16′20″N, 76°34′18″W. Delete BOLLING AFB heliport, 38°50′34″N, 77°00′58″W.
17 Dec 2009 – 11 Feb 2010 No Major Changes.
8 Apr 2010 Change WASHINGTON DULLES INTL ATCT freq from 128.425 to 134.425, 38°56'40"N,
77°27′21″W.
3 Jun 2010 – 29 Jul 2010 No Major Changes.
23 Sep 2010 Delete BELTSVILLE SHOP heliport, 39°03'00"N, 76°53'26"W.
NAVAIDs
27 Aug 2009 - 3 Jun 2010 No Major Changes.
29 Jul 2010 Add DAVEE NDB, freg 223, ident (DAA), class H, 38°39'42"N, 77°06'36"W.
23 Sep 2010 No Major Changes.
AIRSPACE
27 Aug 2009 - 23 Sep 2010 No Major Changes.
SPECIAL USE AIRSPACE
27 Aug 2009 - 23 Sep 2010 No Major Changes.
MILITARY TRAINING ROUTES
27 Aug 2009 - 23 Sep 2010 No Major Changes.
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27 Aug 2009 - 17 Dec 2009 No Major Changes. 11 Feb 2010 Revise HAYMARKET reporting point, 38°49.00'N, 77°38.27'W.

8 Apr 2010 - 23 Sep 2010 No Major Changes.

81st Edition, 29 Jul 2010 OBSTRUCTIONS 29 Jul 2010 No Major Changes.

BAITIMORE-WASHINGTON TERMINAL AREA CHART

23 Sep 2010 Add obst 412'MSL (230'AGL), 38°22'46"N, 77°25'07"W. Add obst 723'MSL (270'AGL)UC, 39°45'39"N, 76°01'48"W.

29 Jul 2010 – 23 Sep 2010 No Major Changes.

29 Jul 2010 No Major Changes. 23 Sep 2010 Delete COGAN NDB, 39°05′11″N, 78°04′07″W.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE 29 Jul 2010 - 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES 29 Jul 2010 - 23 Sep 2010 No Major Changes. MISCELLANEOUS

29 Jul 2010 - 23 Sep 2010 No Major Changes.

AIRPORTS

NAVAIDs

AIRSPACE

OBSTRUCTIONS

AIRPORTS

BOSTON HELICOPTER ROUTE CHART 6th Edition, 20 Dec 2007

20 Dec 2007 - 23 Sep 2010 No Major Changes.

20 Dec 2007 - 10 Apr 2008 No Major Changes. 5 Jun 2008 Revise AMES HELIPORT position to, 42°37′53″N, 70°51′54″W. 31 Jul 2008 – 2 Jul 2009 No Major Changes.

27 Aug 2009 Revise MASS GENERAL heliport position to, 42°21'49"N, 71°04'08"W. 22 Oct 2009 - 23 Sep 2010 No Major Changes.

20 Dec 2007 - 23 Sep 2010 No Major Changes.

AIRSPACE 20 Dec 2007 - 23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE 20 Dec 2007 - 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES 20 Dec 2007 - 23 Sep 2010 No Major Changes.

MISCELLANEOUS 20 Dec 2007 - 23 Sep 2010 No Major Changes.

76th Edition, 6 May 2010

AERONAUTICAL CHART BULLETIN

BOSTON TERMINAL AREA CHART

3 Jun 2010 - 29 Jul 2010 No Major Changes.

23 Sep 2010 Add obst 580'MSL (400'AGL) UC, 41°36'30"N, 70°36'32"W.

3 Jun 2010 Change DOWNTOWN PROVIDENCE from (R19) to (RI9) 41°49'27"N, 71°24'31"W. 29 Jul 2010 - 23 Sep 2010 No Major Changes.

3 Jun 2010 - 23 Sep 2010 No Major Changes. AIRSPACE

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OBSTRUCTIONS

AIRPORTS

NAVAIDS

AIRSPACE

SPECIAL USE AIRSPACE

MISCELLANEOUS

MILITARY TRAINING ROUTES

3 Jun 2010 - 23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE 3 Jun 2010 - 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES 3 Jun 2010 - 23 Sep 2010 No Major Changes.

MISCELLANEOUS 3 Jun 2010 - 23 Sep 2010 No Major Changes.

CF-18 WORLD AERONAUTICAL CHART 39th Edition 22 Oct 2009

OBSTRUCTIONS
22 Oct 2009 - 17 Dec 2009 No Major Changes. 11 Feb 2010 Change obst from 1140'MSL(520'AGL) to 1579'MSL(679'AGL),42°48'02"N,89°03'16"W. Add Obst 1131'MSL(500'AGL),41°31'49"N, 87°12'52"W. Add Obst 1820'MSL(500'AGL),40°44'50"N,82°18'54"W.

Add Obst 1682'MSL(500'AGL),40°26'48"N,79°45'26"W. 8 Apr 2010 - 23 Sep 2010 No Major Changes.

22 Oct 2009 - 23 Sep 2010 No Major Changes

22 Oct 2009 - 23 Sep 2010 No Major Changes.

22 Oct 2009 - 23 Sep 2010 No Major Changes.

22 Oct 2009 - 23 Sep 2010 No Major Changes.

22 Oct 2009 - 23 Sep 2010 No Major Changes.

22 Oct 2009 - 23 Sep 2010 No Major Changes.

CINCINNATI SECTIONAL 84th Edition, 1 Jul 2010

OBSTRUCTIONS 29 Jul 2010 Add obst 2206'MSL (310'AGL), 37°16'09"N, 82°55'58"W.

Add obst 2556'MSL (304'AGL)UC, 38°57'53"N, 80°01'49"W. Add obst 1190'MSL (317'AGL)UC, 39°06'36"N, 82°41'29"W.

Change obst from 2110'MSL (260'AGL) to 2210'MSL (260'AGL), 36°23'13"N, 84°20'11"W.

23 Sep 2010 Add obst 1088'MSL (299'AGL), 38°48'58"N, 84°46'53"W. Add obst 1804'MSL (355'AGL), 37°27'37"N, 79°59'39"W. Add obst 1393'MSL (285'AGL), 36°35'10"N, 80°08'07"W.

Add obst 927'MSL (257'AGL)UC, 36°24'41"N, 79°02'46"W. Add obst 636'MSL (310'AGL), 36°24'11"N, 77°55'45"W.

Add obst 2052'MSL (315'AGL), 36°49'13"N, 83°19'44"W.

Add obst 6477MSL (400 AGL), 36°12'41"N, 78°04'09"W. Add obst 1158'MSL (308'AGL)UC, 38°33'10"N, 82°23'38"W. Add obst 1342'MSL (355'AGL)UC, 39°20'19"N, 78°45'27"W. Add obst 1509'MSL (255'AGL)UC, 39°42'41"N, 80°07'17"W.

AIRPORTS

29 Jul 2010 No Major Changes. 23 Sep 2010 Delete abandoned arpt symbol, 39°09'00"N, 80°12'00"W.

Delete abandoned arpt symbol, 37°06′00″N, 81°50′00″W.

Delete Kite arpt, 36°31'00"N, 82°44'00"W. Change RP 31 to RP * at GRANT CO arpt, 38°59'00"N, 79°08'00"W.

Delete RP 18 at GREATER PORTSMOUTH RGNL arpt, 38°50'25"N, 82°50'50"W. **NAVAIDs**

29 Jul 2010 No Major Changes.

23 Sep 2010 Shutdown AZALEA PARK NDB, 38°00'36"N, 78°31'05"W.

Delete COGAN NDB, 39°05′11″N, 78°04′06″W.

AIRSPACE

29 Jul 2010 No Major Changes. 23 Sep 2010 Revise Mount Airy, NC Class E: That airspace extending upward from 700 feet above the

surface within a 9-mile radius of the Mount Airy-Surry County Airport and within 3.9 miles each side of the 353° bearing from the airport extending from the 9-mile radius to 15.3 miles north of the Mount Airy-Surry

County Airport.

SPECIAL USE AIRSPACE 29 Jul 2010 - 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

29 Jul 2010 - 23 Sep 2010 No Major Changes.

MISCELLANEOUS 29 Jul 2010 - 23 Sep 2010 No Major Changes.

HALIFAX SECTIONAL

83rd Edition, 26 Aug 2010

OBSTRUCTIONS 23 Sep 2010 Add obst 641'MSL (256'AGL)UC, 44°37'01"N, 68°42'44"W.

23 Sep 2010 Change CTAF freq. 122.8 to 122.7 AT NORTHERN AROOSTOCK RGNL arpt, 47°17'08"N, 68°18'46"W.

NAVAIDs 23 Sep 2010 No Major Changes.

AIRSPACE 23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES 23 Sep 2010 No Major Changes.

MISCELLANEOUS

23 Sep 2010 No Major Changes.

AERONAUTICAL CHART BULLETIN

MONTREAL SECTIONAL

529

NAVAIDs

NEW YORK SECTIONAL 81st Edition, 6 May 2010

23 Sep 2010 No Major Changes.

OBSTRUCTIONS 3 Jun 2010 No Major Changes.

29 Jul 2010 Add obst 407 MSL (320 AGL)UC, 43°48 51"N, 69°56'28"W. Add obst 772'MSL (466'AGL)UC, 40°15'04"N, 74°10'47"W.

Add obst 1453'MSL (256'AGL)UC, 41°07'43"N, 76°32'41"W.

23 Sep 2010 Add obst 580'MSL (400'AGL)UC, 41°36'30"N, 70°36'32"W.

Add obst 1365'MSL (380'AGL)UC, 42°35'22"N, 72°04'40"W.

3 Jun 2010 Delete CTAF freq. 122.9 at LUTHER arpt, 43°01'45"N, 75°50'43"W. 29 JUI 2010 No Major Changes.

23 Sep 2010 Delete MAUS MARINELAND spb, 42°48'37"N, 76°18'38"W.

Delete WELLS spb, 42°50′59″N, 73°54′17″W. Delete QUADDICK LAKE spb, 41°57′30″N, 71°49′00″W. Delete KIRKWOOD arpt, 42°00'01"N, 75°45'36"W.

3 Jun 2010 No Major Changes. 29 Jul 2010 Delete WATERBURY NDB, 41°31′45″N, 73°08′37″W.

AIRSPACE

3 Jun 2010 - 29 Jul 2010 No Major Changes.

23 Sep 2010 Change PORTLAND Class C freq from 119.75(SOUTH) to 119.75.

Change PORTLAND Class C freq from 125.5(NORTH) to 125.5.

Change PORTLAND Class C freq from 353.9(NORTH) to 353.9. Change PORTLAND Class C freq from 381.2(SOUTH) to 381.2.

SPECIAL USE AIRSPACE 3 Jun 2010 - 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES 3 Jun 2010 - 23 Sep 2010 No Major Changes.

MISCELLANEOUS

3 Jun 2010 - 29 Jul 2010 No Major Changes. **23 Sep 2010** Change MEF 0⁸ to 0⁹ in quadrant 40°00′ - 40°30′N, 74°00′ - 74°30′W.

NEW YORK TERMINAL AREA CHART

79th Edition, 6 May 2010

OBSTRUCTIONS

3 Jun 2010 No Major Changes

29 Jul 2010 Add obst 772'MSL (466'AGL) UC, 40°15'04"N, 74°10'47"W.

23 Sep 2010 No Major Changes.

AIRPORTS

3 Jun 2010 - 23 Sep 2010 No Major Changes.

3 Jun 2010 -23 Sep 2010 No Major Changes.

AIRSPACE 3 Jun 2010 - 23 Sep 2010 No Major Changes.

SPECIAL USE AIRSPACE

3 Jun 2010 - 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

3 Jun 2010 – 23 Sep 2010 No Major Changes.

MISCELLANEOUS 3 Jun 2010 - 29 Jul 2010 No Major Changes.

23 Sep 2010 Change MEF 0⁸ to 0⁹ in quadrant 40°15′ – 40°30′N, 74°00′ – 74°15′W.

29 Jul 2010 - 23 Sep 2010 No Major Changes. 29 Jul 2010 - 23 Sep 2010 No Major Changes. 531

23 Sep 2010 Change PHILADELPHIA Class B freq from 126.6 to 133.875.

29 Jul 2010 – 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes. **29 Jul 2010 - 23 Sep 2010** No Major Changes.

PITTSBURGH TERMINAL AREA CHART 74th Edition, 23 Sep 2010

AIRPORTS

OBSTRUCTIONS

AIRSPACE

23 Sep 2010 No Major Changes.

23 Sep 2010 No Major Changes.

NAVAIDs 23 Sep 2010 No Major Changes. **AIRSPACE**

29 Jul 2010 No Major Changes.

MILITARY TRAINING ROUTES

SPECIAL USE AIRSPACE

MISCELLANEOUS

23 Sep 2010 No Major Changes. SPECIAL USE AIRSPACE 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES 23 Sep 2010 No Major Changes. MISCELLANEOUS 23 Sep 2010 No Major Changes.

WASHINGTON SECTIONAL 88th Edition, 29 Jul 2010

OBSTRUCTIONS

29 Jul 2010 No Major Changes. 23 Sep 2010 Add obst 412 MSL (230 AGL), 38°22'46"N, 77°25'07"W.

Add obst 723'MSL (270'AGL)UC, $39^{\circ}45'39''N$, $76^{\circ}01'48''W$. Add obst 636'MSL (310'AGL), $36^{\circ}24'11''N$, $77^{\circ}55'45''W$. Add obst 226'MSL (220'AGL), $36^{\circ}13'42''N$, $76^{\circ}08'05''W$.

Add obst 647'MSL (400'AGL), 36°12'41"N, 78°04'09"W.

Add obst 1342'MSL (355'AGL)UC, 39°20'19"N, 78°45'27"W.

AIRPORTS

29 Jul 2010 - 23 Sep 2010 No Major Changes.

NAVAIDs

29 Jul 2010 No Major Changes.

23 Sep 2010 Shutdown AZALEA PARK NDB. 38°00'37"N. 78°31'05"W. Delete COGAN NDB, 39°05′11″N, 78°04′07″W.

AIRSPACE

29 Jul 2010 No Major Changes.

23 Sep 2010 Change PHILADELPHIA Class B freq from 126.6 to 133.875.

SPECIAL USE AIRSPACE

29 Jul 2010 - 23 Sep 2010 No Major Changes.

MILITARY TRAINING ROUTES

29 Jul 2010 - 23 Sep 2010 No Major Changes.

29 Jul 2010 - 23 Sep 2010 No Major Changes.

SUPPLEMENTAL COMMUNICATION REFERENCE Contained within this tabulation, and listed alphabetically by airport name, are all private-use airports charted on the U.S.

IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with

533

I-28H

L-10F

L-16I

H-8I, L-23C

CHART & PANEL

H-1B. L-12F

H-11B

L-14I

L-31C

L-32J

I =31D

H-2H

L-31D

L-32G

L-32G

L-31D

H-1C

H-10G, 11B, L-31D

H-11E. L-32J

H-10G, L-30G

H-1B, L-1E

H-11B, L-31D

H-1E, 2F, L-13D

approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility. UNITED STATES **FACILITY NAME CHART & PANEL**

CANADA

Frankfort, IL (LL4Ø) Chicago App/Dep Con 133.1 285.6

Glasgow Industrial, MT (Ø7MT) Salt Lake Center App/Dep Con 126.85 305.2

USAF Academy Bullseye Aux Airstrip, CO (CO9Ø) ASOS 118.325 West Kentucky Airpark, KY (5KY3)

Memphis Center App/Dep Con 133.65 292.15 William P Gwinn, FL (Ø6FA) Gwinn Tower 120.4 279.25 (Mon-Fri 1300-2100Z‡)

Gnd Con 121.65 279.25

FACILITY NAME

Abbotsford, BC (CYXX)

ATIS 119.8 (1500-0700Z±) Victoria Trml App/Dep Con 132.7 (Avbl on ground) 290.8

Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500-0700Z‡) Gnd Con 121.8 MF 119.4 295.0 (0700-1500Z‡) (Shape irregular to 4500') Montreal Center App/Dep Con 125.9

Amos/Magny, QC (CYEY) Atikokan Muni, ON (CYIB) MF 122.3 (5 NM to 4500' No ground station) Barrie-Orillia (Lake Simcoe Ronl), ON (CYLS)

AWOS 122.55 (Pvt) Toronto Center App/Dep Con 124.025 Bar River, ON (CPF2)

Toronto Center App/Dep Con 132.65 Bathurst, NB (CZBF) Moncton Center App/Dep Con 134.25

Boundary Bay, BC (CZBB) ATIS 125.5 (1500-0700Z‡) Vancouver App/Dep Con 132.3 363.8

irregular to 2500'.)

Tower 118.1 (Inner) 127.6 (Outer) (1500-0700Z‡) Gnd Con 124.3 Brampton, ON (CNC3) Toronto Trml App/Dep Con 119.3 253.1

MF 118.1 (0700-1500Z‡ to 2000'. Vancouver Trml 125.2 above 2000'. Shape Brandon Muni, MB (CYBR)

Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000')

Brantford, ON (CYFD)

Toronto Trml App/Dep Con 128.27

Brockville-Thousand Islands Rgnl Tackaberry, ON (CNL3)

Montreal Center App/Dep Con 134.675

Bromont, QC (CZBM) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400')

Toronto Center App/Dep Con 119.3 253.1 Castlegar/West Kootenay Rgnl, BC (CYCG)

Toronto Center App/Dep Con 135.30

Cleveland Center App/Dep Con 132,25

Vancouver Center App/Dep Con 134.2 227.3

Burlington Airpark, ON (CZBA)

Charlottetown, PE (CYYG)

Chatham-Kent, ON (CNZ3)

MF 122.1 (5 NM to 6500') Centralia/James T. Fld Muni, ON (CYCE)

Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200')

	SUPPLEMENTAL COMMUNICATION REFERENCE	
ACILITY NAME		CHART & PANI
Collingwood, ON (CN	NY3)	H-11B, L-31
Toronto Cente	er App/Dep Con 124.02	
Cornwall Rgnl, ON (L-32
Boston Center	r App/Dep Con 135.25 377.1	
	n Rockies Intl, BC (CYXC)	H-1
	nter App/Dep Con 133.6 MF 122.3 (5 NM to 6100')	
Debert, NS (CCQ3)		H-11E, L-32
Halifax Trml A	pp/Dep Con 119.2	
Digby, NS (CYID)		L-32
	ter App/Dep Con 123.9	
Downsview, ON (CYZ	ZD)	H-11B, L-31
Toronto Cente	er App/Dep Con 133.4	
MF 126.2 (13	300–2300Z‡, 3 NM to 1700′)	
Drummondville, QC (L-32
	ter App/Dep Con 132.35	
	ng Rgnl), ON (CYXR)	H-11
MF 122.0 (5 N		
AWOS 128.6		
Elliot Lake Muni, ON	(CYEL)	L-3:
	er App/Dep Con 135.4	
Fort Frances Muni, (117	L-14
	Center App/Dep Con 120.9	
Fredericton Intl, NB		H-11E, L-3
	(1045–0245Z‡, OT AWOS)	
	ter App/Dep Con 124.3 135.5 270.8	
	1045–0245Z‡) Gnd Con 121.7 (1045–0245Z‡)	
	45–1045Z‡, 5 NM to 3500′)	
Goderich, ON (CYGI		H-11B, L-31
	er App/Dep 135.3 266.3	**
Greenwood, NS (CY)		H-11E, L-3
	244.3 (1100–0000Z‡)	== ,
	120.6 335.9 Tower 119.5 126.2 236.6 324.3	
	.75 289.4 Clnc Del 128.025 283.9	
Grimsby Air Park, Of		L-3
	App/Dep Con 128.27 268.75 Tower 125.0 308.475	
Halifax/Shearwater,		H-11E, L-3
ATIS 129.175		11 ±±=,= =
	119.2 MF Shearwater Advisory 119.0 126.2 340.2 360.2 (Ltd hrs)	
Gnd Con 121.	The state of the s	
Halifax/Stanfield Intl		H-11E, L-3
ATIS 121.0	, no (CTD2)	11-11-, - 0
	ter App/Dep Con 118.7 119.2 128.55 135.3 363.8	
	236.6 Gnd Con 121.9 275.8 Clnc Del 123.95	
Apron Advisory		
Hamilton, ON (CYH!		H-10H, 11B, L-1
ATIS 128.1	VI)	H-TOI1, TTD, E T
	Ann /Dan Can 139 37 369 75 Towar 110 7 135 0	
	App/Dep Con 128.27 268.75 Tower 119.7 125.0	
Gnd Con 121.0		H-11C, L-31E, 3
Kingston, ON (CYG)		H-116, L-31L, C
	ter App/Dep Con 135.05 398.4 (0400–1115Z‡)	
	.15-0400Z‡ 5 NM to 3300′)	U 44D I 2
Kitchener/Waterloo,		H-11B, L-3
ATIS 125.1 (1:		
	App/Dep Con 128.275	
Waterloo Towe	er 126.0 118.55 (1200–0400Z‡) Gnd Con 121.8	

Waterloo Tower 126.0 118.55 (1200-0400Z‡) Gnd Con 121.8

MF 126.0 (0400-1200Z‡ 5 NM to 4000')

L-32G Lachute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3

Montreal Center Dep Con 132.85 268.3

La Tuque, QC (CYLQ)

H-11C Montreal Center App/Dep Con 134.5

L-1E Langley, BC (CYNJ)

ATIS 124.5 (1630-0230Z, DT 1530-0330Z) Victoria Trml App/Dep Con 132.7 290.8 Tower 119.0 (1630-0230Z,

NE. 23 SEP 2010 to 18 NOV 2010

Gnd Con 121.9 MF 119.0 (0230-1630Z, DT 0330-1530Z 3 NM to 1900')

DT 1530-0330Z)

1-30E

H-1D

L-321

L-31C

L-32G

L-32G

H-1D

L-31D

L-32G

H-11E, L-32J

H-11E, L-32J

H-11C, 12K, L-32G

H-11C, 12K, L-32G

H-11C, L-32G

H-11B, L-31D

H-1B, L-1E

H-11B, L31D

1_31F

L-31E. L-32F

H-10G, 11B.

L-30G. 31D

- **FACILITY NAME**
- Leamington, ON (CLM2)

Lindsay, ON (CNF4)

London, ON (CYXU)

Maniwaki, QC (CYMW)

Mascouche, QC (CSK3)

Medicine Hat, AB (CYXH)

Midland/Huronia, ON (CYEE)

Apron Advisory 122.075 Mont-Laurier, QC (CSD4)

Miramichi, NB (CYCH)

ATIS 128 65

ΔTIS 125 7

ATIS 133.7

VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU)

Muskoka, ON (CYQA)

Nanaimo, BC (CYCD)

Oshawa, ON (CYOO)

25001) North Bay, ON (CYYB)

MF 122.3 (5 NM to 3900')

ATIS 124.9 (1130-0330Z±)

ATIS 125.675 (1130-0330Z‡) Toronto Trml App/Dep Con 133.4 Tower 120.1 (1130-0330Z‡) Gnd Con 118.4 MF 120.1 (0330-1130Z‡ 5 NM to 3000')

Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')

Toronto Center App/Dep 134.25

Toronto Center App/Dep 135.3 135.625

Manitowaning/Manitoulin East Muni, ON (CYEM) Toronto Center App/Dep 135.4 260.9

Montreal Center App/Dep Con 126.57

AWOS 124.875 (0345-1245Z±) MF 122.2 (1245-0345Z‡ 5 NM to 5400')

Toronto Center App/Dep 124.025

Moncton Center App/Dep Con 123.7 Moncton/Greater Moncton Intl. NB (CYOM)

Montreal Center App/Dep Con 126.57 Montreal Intl (Mirabel), QC (CYMX)

Montreal Dep Con 132.85 268.3

Montreal/Pierre Elliott Trudeau Intl. QC (CYUL)

Montreal Center App Con 124.65 132.85 268.3

Montreal Center App/Dep Con 125.15 268.3

AWOS 124.575 Timmins Radio App/Dep Con 122.3

Tower 119.4 125.65 (1120-0345Z‡) Gnd Con 121.9 MF 119.4 (0345-1120Z‡ 5 NM to 3000')

MF 122.35 (5 NM to 2500'. No gnd station. Excluding the portion S of the N shore of Riviere des Milles-lles and 1 NM around Lac Agile Mascouche arpt.)

App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8

MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15

Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 (W-NW-NE) 268.3

ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9

Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 291.8 1330-0530Z‡ (5 NM to

NE. 23 SEP 2010 to 18 NOV 2010

St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15

Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3

Liverpool/South Shore Rgnl, NS (CYAU) Moncton Center App/Dep Con 123.9

ATIS 127.8 (1120-0345Z±)

- Cleveland Center App/Dep Con 132.45
- Lethbridge, AB (CYOL)
- ATIS 124.4 (1300-0545Z‡)
- Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000')

SUPPLEMENTAL COMMUNICATION REFERE	NOL
ICILITY NAME	CHART & PA
Ottawa/Carp, ON (CYRP)	L-31E, 3
ATIS 121.15	
Ottawa Trml App/Dep Con 128.175	U 440 L 6
Ottawa/Gatineau, QC (CYND) Ottawa Trml App /Dep Cop 127 7 128 175	H-11C, L-3
Ottawa Trml App/Dep Con 127.7 128.175 MF 122.3 (5 NM shape irregular to 2500')	
MF 122.3 (5 NM shape irregular to 2500') VFR Advisory Ottawa Trml 127.7	
VFR Advisory Ottawa Trml 127.7 Ottawa/MacDonald-Cartier Intl, DN (CYOW)	L-1
ATIS 121.15	=
Ottawa App Con 135.15 Tower 118.8 (VFR South) 120.1 (VFR North) 118.8 34	A1 2
Gnd Con 121.9 Clnc Del 119.4	+1.5
Ottawa Dep Con 128.175	
Owen Sound/Billy Bishop Rgnl, ON (CYOS)	L-3
Toronto Center App/Dep 132.575 290.6	
Pelee Island, ON (CYPT)	L=3
Cleveland Center App/Dep Con 126.35 360.0	
Pembroke, ON (CYTA)	H-11C, L-31E, 3
Montreal Center App/Dep Con 135.2	
Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z‡, OT PPR)	
Penticton, BC (CYYF)	H-
Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100')	
Peterborough, ON (CYPQ)	H-11B, L-31E, 3
AWOS 126.925	
Toronto Center App/Dep 134.25	
Pincher Creek, AB (CZPC)	H-
Edmonton Center App/Dep Con 132.75 265.2 Pitt Maadows RC (CYPK)	1.
Pitt Meadows, BC (CYPK) ATIS 125 0 (1500-07007+)	L-
ATIS 125.0 (1500–0700Z‡) Vancquiver Center Ann Con 128 6 352 7 (Outer)	
Vancouver Center App Con 128.6 352.7 (Outer) Pitt Tower 126.3 (1500–0700Z‡) Gnd Con 123.8	
Pitt Tower 126.3 (1500–07002‡) Gnd Con 123.8 Vancouver Center Dep Con 132.3 363.8 (South)	
Vancouver Center Dep Con 132.3 363.8 (South) MF 126.3 (0700–1500Z‡) (3NM to 2500')	
Quebec/Jean Lesage Intl, QC (CYOB)	H-11D, L-3
ATIS 134.6	11 ***; = .
Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8	
Tower 118.65 236.6	
Gnd Con 121.9 250.0	
Riviere Du Loup, QC (CYRI)	H-1
AWOS 122.025 (Pvt)	
Montreal Center App/Dep Con 125.1 299.6	
Rouyn Noranda, QC (CYUY)	H=3
Montreal Center App/Dep Con 125.9	
MF 122.2 (5 NM to 4000')	
Saint John, NB (CYSJ)	H-11E, L-
Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400')	
Sarnia (Chris Hadfield), ON (CYZR)	H-10G, 11B, L-
AWOS 119.125	
Toronto Center App/Dep Con 134.375	U 0// L /
Sault Ste Marie, ON (CYAM)	H–2K, L–3
ATIS 133.05 (1300–0100Z‡)	
Toronto Center App/Dep Con 132.65 344.5	
Tower 118.8 (1300–0100Z‡) Gnd Con 121.7 (1300–0100Z‡) ME 118.8 (0100–1300Z‡ 5 NM irregular shape to 3000′)	
MF 118.8 (0100–1300Z‡ 5 NM irregular shape to 3000') Sherbranke 0C (CYAM)	
Sherbrooke, QC (CYAM) AWOS 126 25	H-11D, L-3
AWOS 126.25 Montreal Center App/Dep Cop 132 55 MF 123 5 (Ltd brs 5 NM to 3800')	
Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800') South Renfrew Muni, ON (CNP3)	
South Rentrew Muni, UN (CNP3) Montreal Center App/Dep 124.275	L-31E,
Southport, MB (CYPG)	Н
ATIS 120.85 (Mon–Fri 1400–2300Z‡ except holidays)	**
Tower 126.2 384.2 (Mon–Fri 1400–2300Z‡ except holidays)	
Tower 126.2 384.2 (Mon–Fri 1400–23002‡ except holidays) Gnd Con 121.7 275.8	
GNG CON 121.7 275.0	

H-10H, 11B, L-31E

L-32H

I =32G

H-32H, L-11D

H-31B, 10G, L-31D

H-11E, L-32J

H-2J, L-14J

H-11B

I –31F

L-31E

H-11B, L-31D

H-11C, L-31E, 32F

H-11C, L-31E, 32F

H-11C, L-32H

H-11B

H-1B, L-1E

Springwater Barrie Airpark, ON (CNA3) Toronto Center App/Dep Con 124.025 St. Catherines/Niagara District. ON (CYSN)

ATIS 128.525 (1215-0200Z‡) Toronto Trml App/Dep Con 133.4 253.1

MF 123.25 (1215-0200Z‡ 5 NM to 3300') St. Frederic, QC (CSZ4)

Montreal Center App/Dep Con 135.025 270.9 St. Georges. QC (CYSG)

Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM 3900' ASL)

St. Jean. QC (CYJN)

Montreal Center App/Dep Con 125.15 268.3 Tower 118.2 (Apr-Oct 1230-0230Z‡ Nov-Mar 1300-0200Z‡) Gnd Con 121.7

Sudbury, ON (CYSB) ATIS 127.4

Toronto Center App/Dep Con 135.5 MF 125.5 (7 NM to 4000') Summerside, PE (CYSU)

AWOS 122.55 (Pvt)

Moncton Center App/Dep Con 124.4 384.8 Thunder Bay, ON (CYOT) ATIS 128.8 (1100-0400Z‡) Winnipeg Center App/Dep Con 132.125 Tower 118.1 (1100-0400Z±) Gnd Con 121.9 (1100-0400Z±)

Timmins/Victor M. Power, ON (CYTS) ATIS 124.95 (1000-0500Z±)

App/Dep 119.2 MF 118.1 (0400-1100Z‡ 5 NM to 4000') Toronto/Buttonville Muni, ON (CYKZ) ATIS 127.1 (1200-0400Z‡)

Toronto Center App/Dep Con 128.3 MF 122.3 (5 NM to 4000') Toronto Trml App/Dep Con 133.4

Tower 124.8 119.9 (1200-0400Z‡) Gnd Con 121.8 (1200-0400Z‡) Toronto/Billy Bishop Toronto City Airport, ON (CYTZ)

MF 124.8 (0400-1200Z‡ No gnd station. 5 NM shape irregular to below 2500') ATIS 133.6 (1130-0400Z±) App/Dep Con 133.4 Tower 118.2 119.2 (1130-0400Z‡) Gnd Con 121.7

ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8

Toronto/Lester B Pearson Intl. ON (CYYZ) Tower 118.35 118.7 Gnd Con 119.1 121.65 121.9 Cinc Del 121.3 (1200-0400Z‡)

Trenton, ON (CYTR) ATIS 135.45 257.7

Cinc Del 124.35 286.4

App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0

Trois-Rivieres, QC (CYRO)

MF 123.0 (5 NM to 3200')

Montreal Center App/Dep Con 128.225 229.2 Val-D'or. QC (CYVO)

Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030-0325Z‡ 5 NM to 4000')

Dep Con 126.125 (north) 132.3 (south) 363.8

Vancouver Intl. BC (CYVR)

ATIS 124.6 124.75

App Con 128.6 128.17 352.7 (Outer) 133.1 134.225 352.7 (Inner)

Tower 118.7 (south) 119.55 (north) VFR 124.0 125.65 226.5 236.6 Gnd Con 121.7 (south) 127.15 (north) 275.8 Clnc Del 121.4

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538 SUPPLEMENTAL COMMUNICATION REFERENCE	
FACILITY NAME	CHART & PANEL
Victoria Intl, BC (CYYJ)	H-1B, L-1E
ATIS 118.8 (1400–0800Z‡)	
App Con 125.95 Dep Con 133.85 Tower 119.1 (Outer) 119.7 (Inner) 239.6	
Gnd Con 121.9 361.4 (1400–0800Z‡ OT ctc Kamloops 119.7)	
Clnc Del 126.4 (1400-0800Z‡)	
Victoriaville, QC (CSR3)	L-32H
Montreal Center App Con 132.35 Waterville/Kings Co Muni, NS (CCW3)	L-32J
Greenwood Trml App/Dep Con 120.6 335.9	L 023
Greenwood Tower 119.5 324.3	
Wiarton, ON (CYVV)	H-11B, L-31D
Toronto Center App/Dep Con 132.575	
MF 122.2 (5 NM to 3700') Windsor, ON (CYQG)	H-10G, L-8J
ATIS 134.5 (1130–0330Z‡)	11 104, 2 03
Detroit App/Dep Con 126.85 127.5 134.3 348.3 363.2	
Tower 124.7 (1130-0330Z‡) Gnd Con 121.7 (1130-0330Z‡)	
MF 124.7 (0330–1130Z‡ 6 NM irregular shape to below 3000')	
VFR Advisory Detroit App Con 134.3 Yarmouth, NS (CYQI)	H-11E, L-32I
Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100')	11-111, 1-021
MEXICO	
FACILITY NAME	CHART & PANEL
Abraham Gonzalez Intl (MMCS)	H–4K, L–6F
Juarez App Con 119.9 Juarez Tower 118.9 Del Norte Intl (MMAN)	H-7B, L-20G
ATIS 127.55 (1300–0300Z‡)	11 15, 2 200
Monterrey App 119.75 120.4 Tower 118.6	
Durango Intl (MMDO)	H-7A
ATIS 132.1	
Tower 118.1 Durango Info 122.3 General Abelardo L Rodriguez Intl (MMTJ)	H-4H, L-4H
ATIS 127.9	11 411, 2 411
Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Tijuana Clnc Del 122.35	
Tijuana Info 132.1	
General Lucio Blanco Intl (MMRX)	H-7B, L-20H
Reynosa App Con 118.8 Reynosa Tower 118.8 General Mariano Escobedo Intl (MMMY)	H-7B, L-20G
ATIS 127.7	11-7B, L-20G
Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9	
General R Fierro Villalobos Intl (MMCU)	L-61
ATIS 127.9	
Chihuahua App Con 121.0 Chihuahua Tower 118.4	H-4H, L-4J, 5A
General Rodolfo Sanchez Taboada Intl (MMML) ATIS 127.6	H-4H, L-4J, 5A
Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3	
General Servando Canales Intl (MMMA)	H-7C, L-21A
Matamoros App Con 118.0 Matamoros Tower 118.0	
Plan De Guadalupe Intl (MMIO)	H-7B
Saltillo App Con 127.4 Saltillo Tower 118.4 Quetzalcoatl Intl/Nuevo Laredo Intl (MMNL)	H-7B, L-20G
Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3	11-7 B, L-20G
Torreon Intl (MMTC)	H-7A
App Con 119.6 Tower 118.5	

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AIRPORT DIAGRAMS

In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the A/FD. Diagrams will be listed alphabetically by associated city ar airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in groun taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedure Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.

NOTE: Some text data published under the individual airport in the front portion of the A/FD may be more current that the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

GENERAL INFORMATION

PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Available pilot controlled lighting (PCL) systems are indicated as follows:

- 1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., 🚳, 👁 😥 2. Approach lighting systems that do not bear a system identification are indicated with a negative "①" beside the name
- A star (*) indicates non-standard PCL, consult the individual airport in the front portion of the A/FD, e.g., 📭 To activate lights use frequency indicated in the communication section of the chart with a $m{0}$ or the appropriate

lighting system identification e.g., UNICOM 122.8 0, 🚳, 💇

KEY	MIKE

7 times within 5 seconds

5 times within 5 seconds

3 times within 5 seconds

FUNCTION

Highest intensity available

Medium or lower intensity (Lower REIL or REIL-off) Lowest intensity available (Lower REIL or REIL-off)

CHART CURRENCY INFORMATION

-Amdt 11A 99365 Date of latest change FAA procedure amendment number—

The Chart Date indentifies the Julian date the chart was added to the volume or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest addition or change was first published.

The Procedure Amendment Number precedes the Chart Date, and changes any time instrument information (e.g., DH, MDA, approach routing, etc.) changes. Procedure changes also cause the Chart Date to change.

MISCELLANEOUS

- Indicates a non-continuously operating facility, see the individual airport in the front portion of the A/FD.
- Indicates control tower temporarily closed UFN.

10210 LEGEND

Runways

Runway

INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM/AIRPORT SKETCH

	Hard Surface	Other Than Hard Surface	Stopways,Taxiways Parking Areas, Water Runways	, Displaced Threshold	F N		
	× × Closed Runway	Closed Taxiway	Under Construction	Metal Surface	R R		
ARRESTING GEAR: Specific arresting gear systems; e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to appropriate DOD publications.							
	Tuni-di	rectional	bi-directional 👔	Jet Barrier	R 8		
ARRESTING SYSTEM							
	REFERENC	E FEATURES					
	Tanks Obstructio	ns			F		
	Airport Re	acon #		*	-		

When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR.

Hot Spot(

Radar Reflectors.....

Control Tower #....

Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds if any) but excluding areas designated as stopways.

A **D** symbol is shown to indicate runway declared distance information available, see appropriate A/FD, Alaska or Pacific Supplement for distance information.

Helicopter Alighting Areas (H) (H) (M) (H)

Negative Symbols used to identify Copter Procedures

(shown when runway slope is greater than or equal to 0.3%) NOTE: lunway Slope measured to midpoint on runways

8000 feet or longer.
 U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of approximately 7 feet and proximity to edge of runway may create an obstruction for some types

Approach light symbols are shown in the Flight Information Handbook.

Airport diagram scales are variable.

of aircraft.

True/magnetic North orientation may vary from diagram to diagram

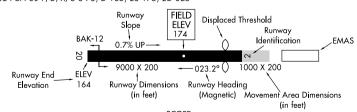
Coordinate values are shown in 1 or ½ minute increments. They are further broken down into 6 second ticks, within each 1 minute increments.

Positional accuracy within ±600 feet unless otherwise noted on the chart.

NOTE:
All new and revised airport diagrams are shown referenced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible with local coordinates published in FLIP. (Foreign Only)

Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression.

Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 PCN 80 F/D/X/U S-75, D-185, 2S-175, 2D-325



SCOPE

Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E., INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

LEGEND

CITY/AIRPORT

BALTIMORE

REDECED

CALDWELL ESSEX CO (CDW)

LEBANON

MANCHESTER MANCHESTER (MHT)

LEBANON MUNI (LEB)

BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL (BWI)

LAURENCE G. HANSCOM FIELD (BED)

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

AIRPORT DIAGRAMS

DESCRIPTION

intersection

Twy E clsd and barricaded.

to Rwy 04R and Rwy 09.

Uncontrolled stop bar. No crossing allowed.

Caution Rwv 10-28 in close proximity to Twy P1

Pilots become confused with the wide expanse of pavement and convergence of numerous twys.

Watch for Rwy "04L APCH" when taxiing on Twy B

Maintain vigilance when taxiing outbound on Twy C to Rwy 33L when Rwy 09-27 is active.

Maintain vigilance when taxiing on Twy E and Twy K at Rwy 09 when Rwy 04L-22R is active.

Maintain vigilance when taxiing inbound on Twy E from Rwy 27 when Rwy 22L is active.

Maintain vigilance when taxiing outbound on Twy C and Twy D to Rwy 27 when Rwy 33L is active.

Pilots taxiing to Rwy 28 northbound on Twy P should exercise caution at intersection of Twv P and Twv N

Rwy hold position marking for Rwy 25 on Twy B is further down the twy than most pilots would expect. When taxiing to Rwy 25 on Twy B the hold line will

North Ramp and Twy B between Twy B1 and Twy B2

Maintain vigilance when taxiing to Rwy 35 on Twy A. Rwy holding position markings located on the edge

Maintain vigilance approaching the rwy holding position markings. Anticipate the Rwy 17 hold line upon crossing Rwy 24 northbound on Twy H.

due to close proximity to Rwy 28.

appear before you expect it.

area not visible from the twr.

of Twy A at Twy P and Twy U.

Acft routinely back taxi on Rwy 18-36.

HOT SPOTS An "Airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision of

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to

below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the

MARYI AND

MASSACHUSETTS

NEW JERSEY

NFW HAMPSHIRE

airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are

increased risk has been reduced or eliminated.

HOT SPOT

HS 1

HS₂

HS 3

HS₁

HS 1

HS₂

HS 3

HS 4

HS₅

HS 1

HS₁

HS₂

HS₃

HS₁

HS₂

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runway incursion, and where heightened attention by pilots/drivers is necessary.

depicted on airport diagrams as open circles or polygons designated as "HS 1", "HS 2", etc. and tabulated in the list

HS 3

HS₁

HS₂ HS 3

RHODE ISLAND

VFRMNNT

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is NSTD.

Rwy 08-26 without proper clearance. not mistake Rwy 17-35 for Twy E.

Intersection of Rwy 16-34, Twy V, Twy N, and Twy T - complex intersection with a convergence of numerous twys with Rwy 16-34.

Twv M at the intersection of Twv B use extra vigilance due to vast amount of pavement and multiple hold lines in close proximity of rwy.

Wrong rwy departure risk. Pilots instructed to depart Rwy 19 mistakenly depart wrong rwy-Rwy

Twy C at Rwy 30 - Entrance to Twy B is difficult to see from Twy C due to large pavement area. Acft taxiing on Twy D must remain alert to not enter Acft exiting the ramp via Twy H must remain alert to

Tfc taxiing south on Twv Y must be alert to not miss the turn at Twv S and enter onto Rwv 09R-27L.

Maintain vigilance at Twv M and Twv C due to vast amount of pavement and multiple rwy hold lines in

HS 1

HS 2

HS 3

HS₁

PROVIDENCE THEODORE FRANCIS GREEN STATE (PVD)

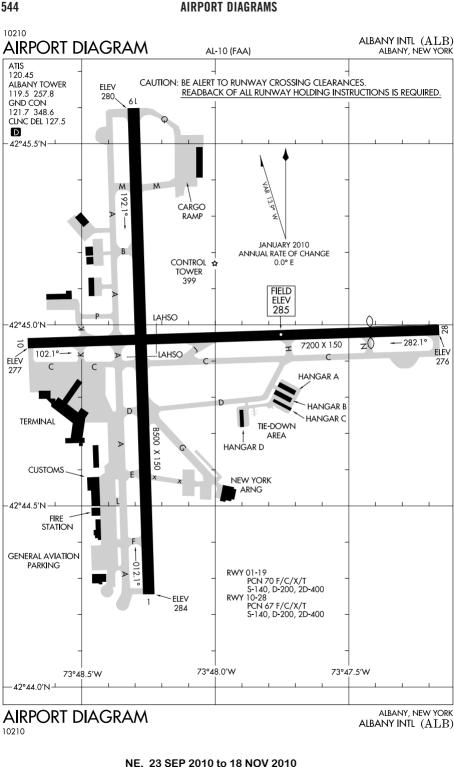
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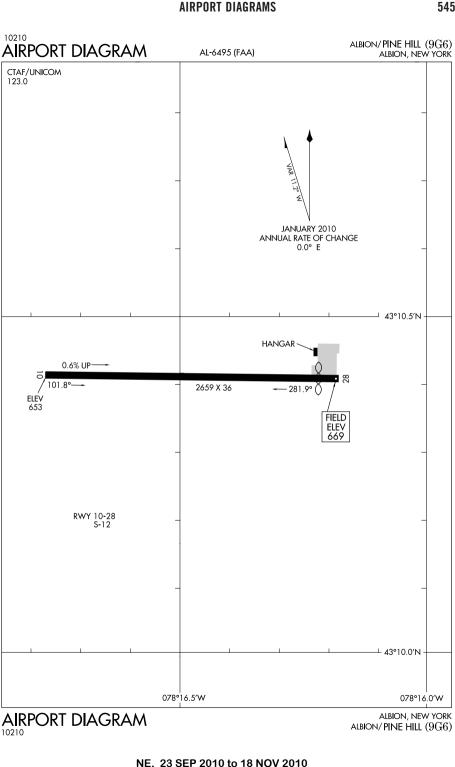
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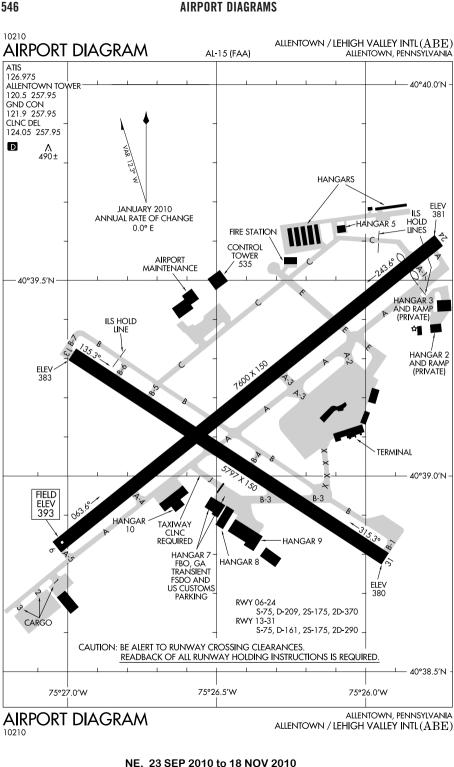
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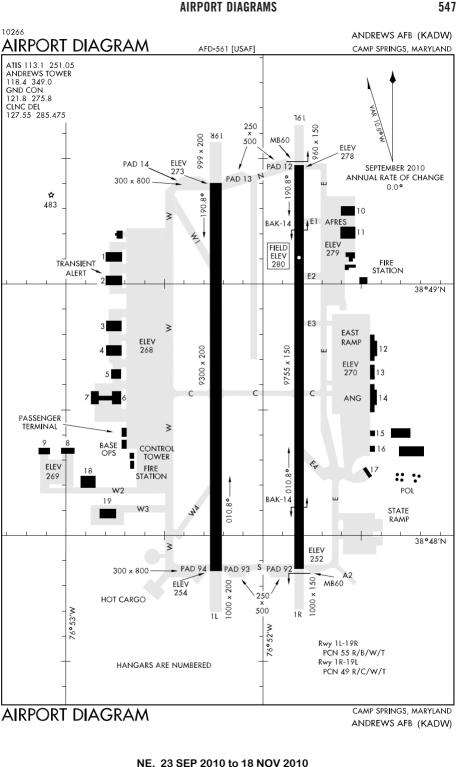
close proximity of rwy.

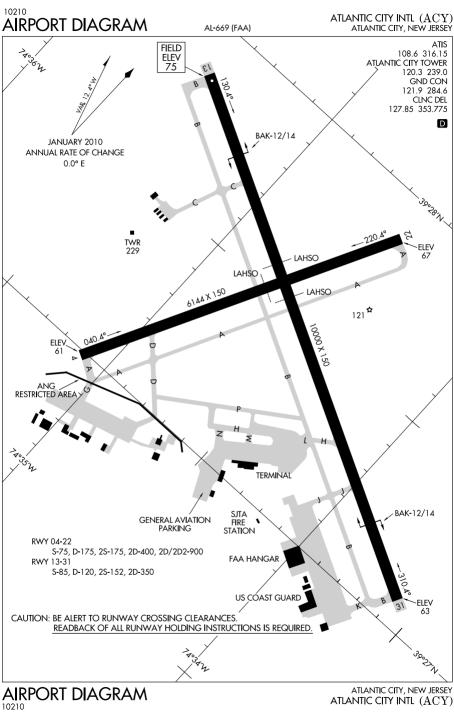
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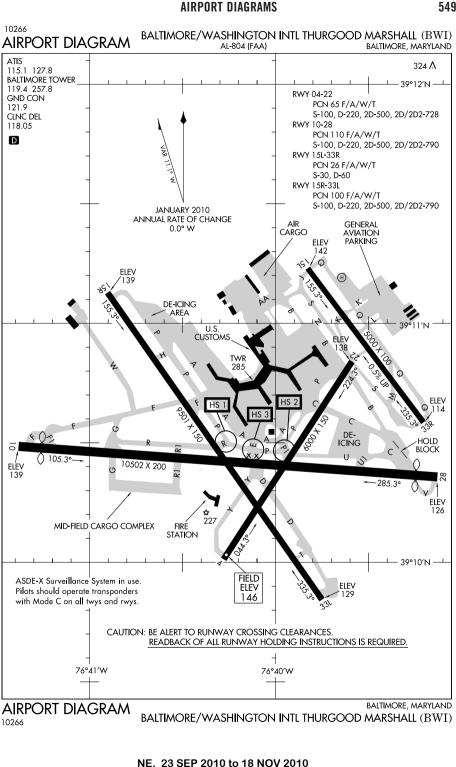


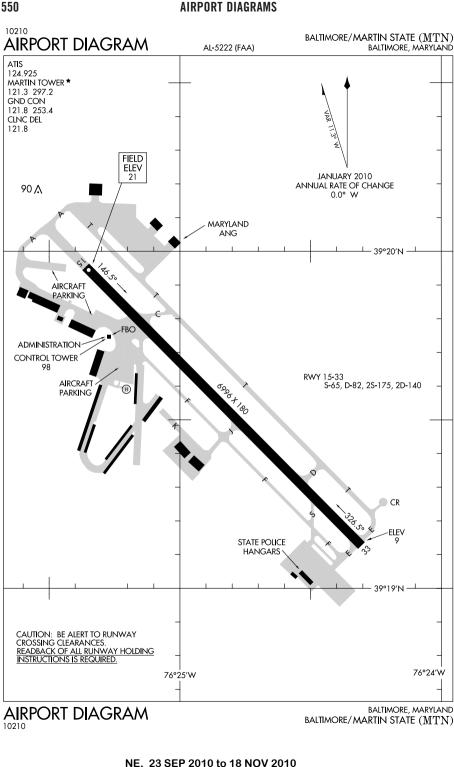


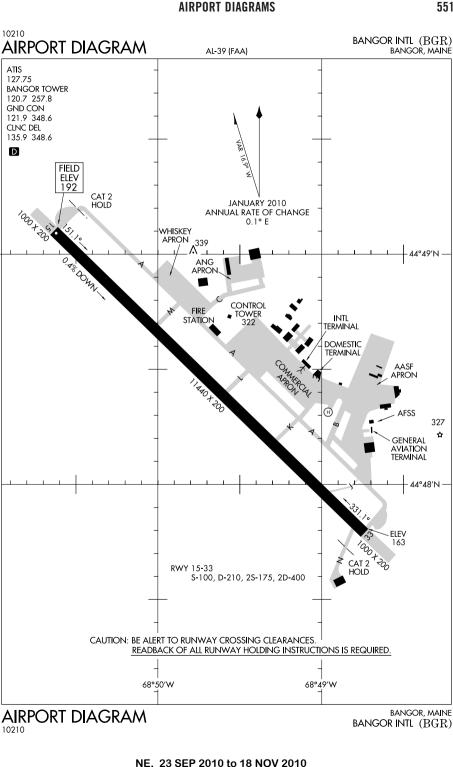


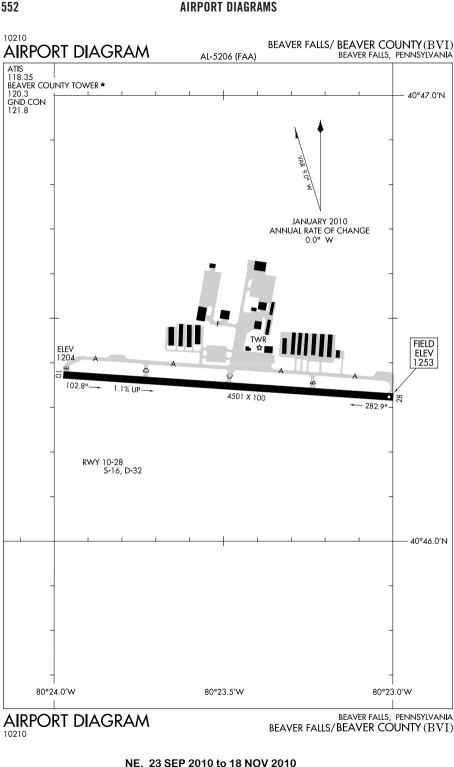


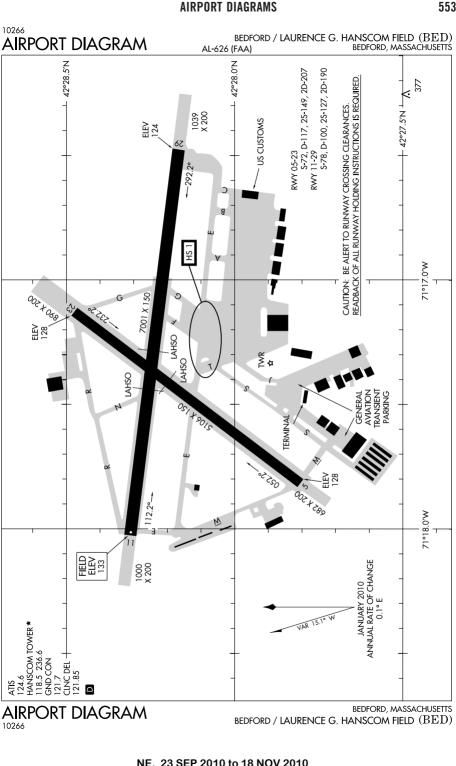
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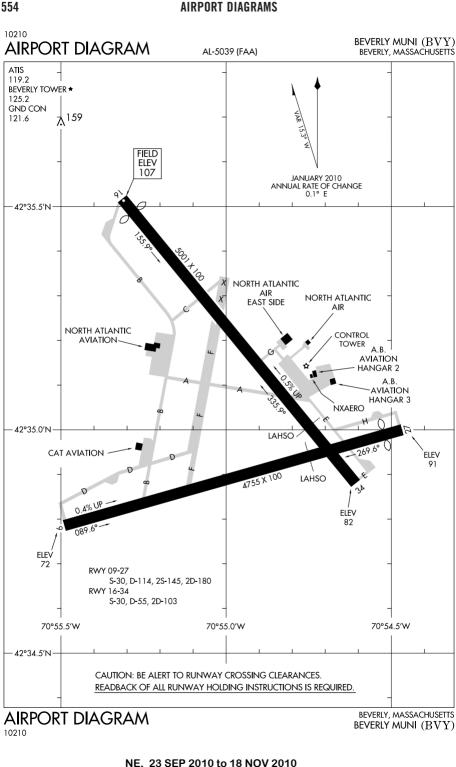


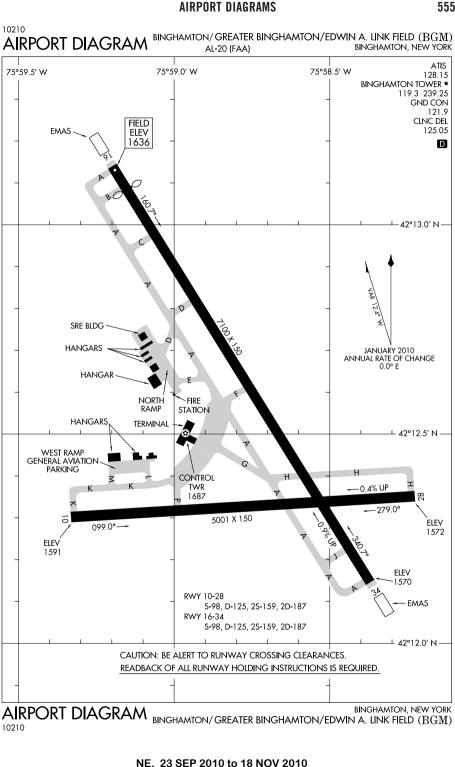


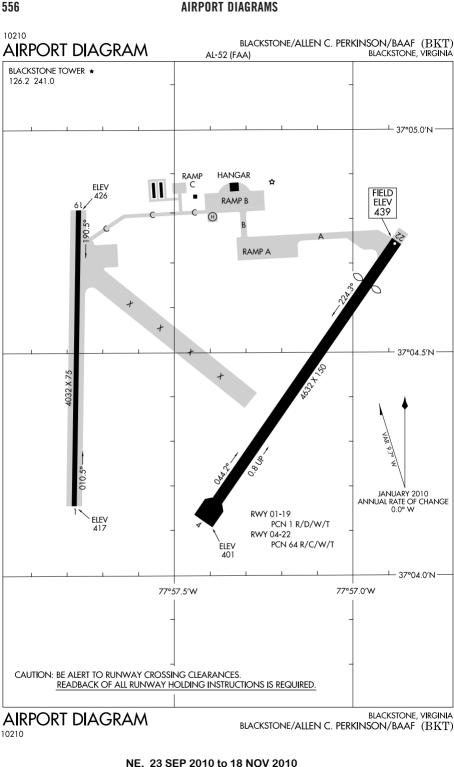


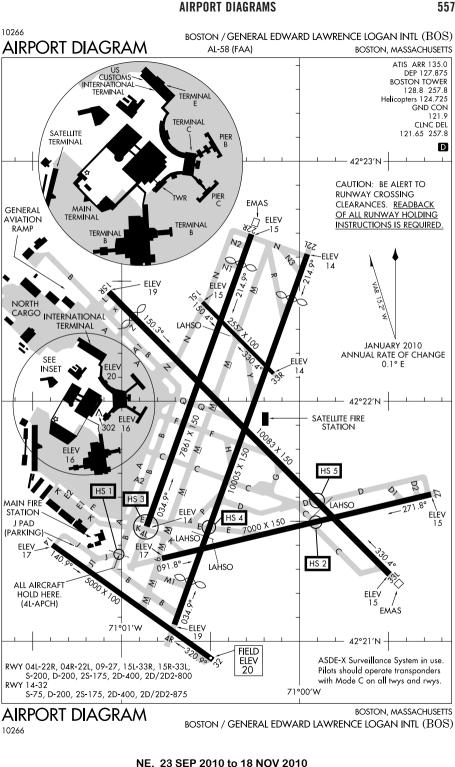


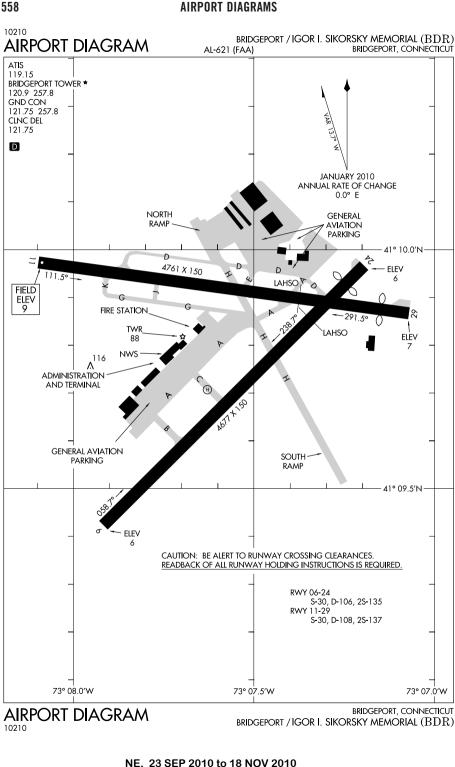
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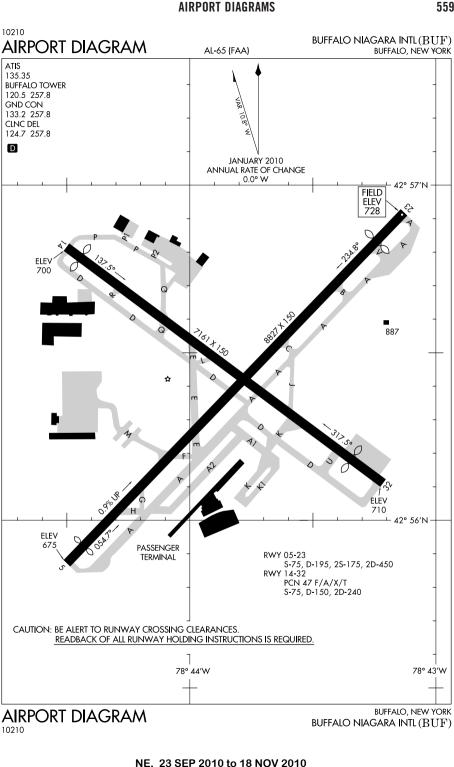


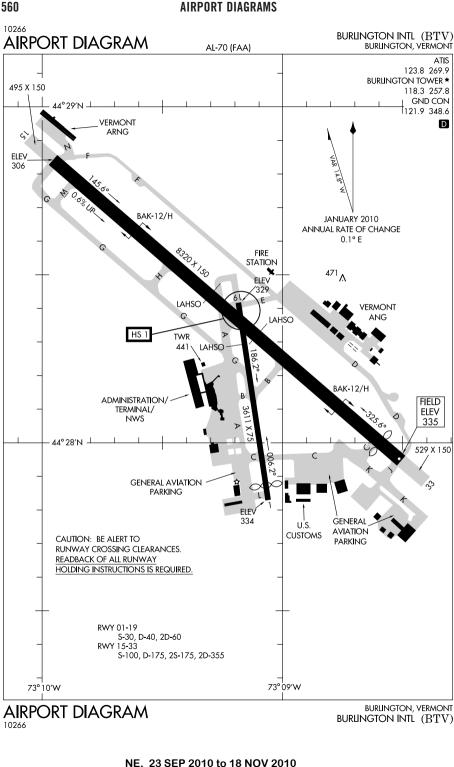


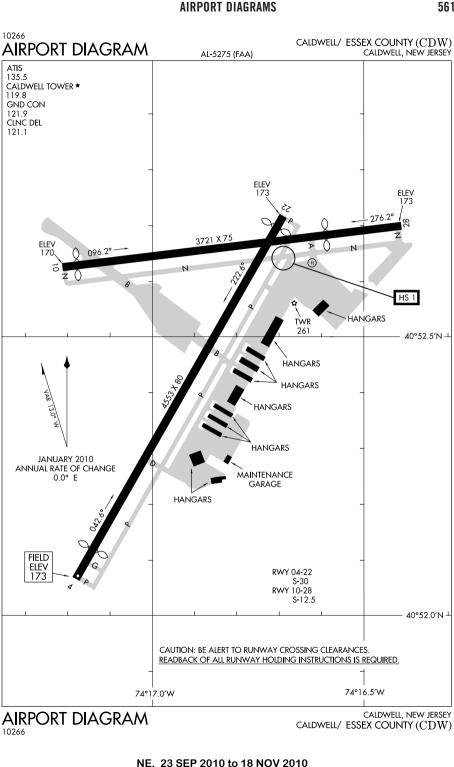


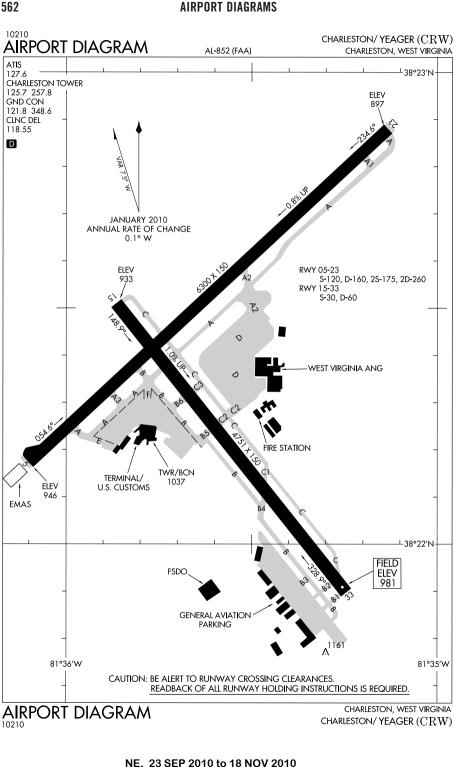


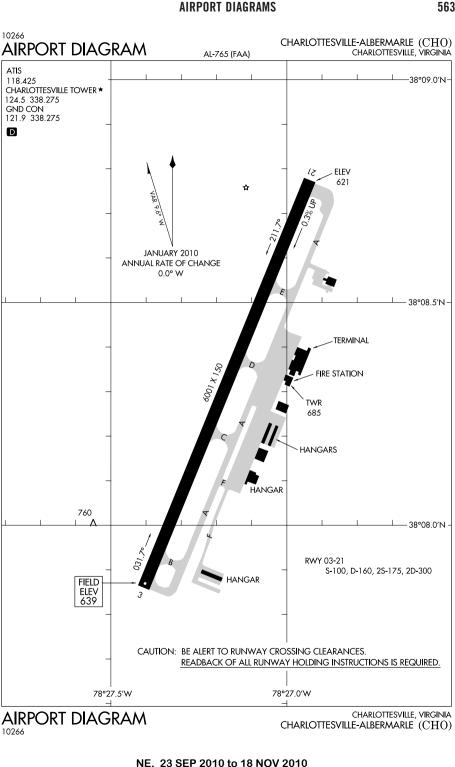


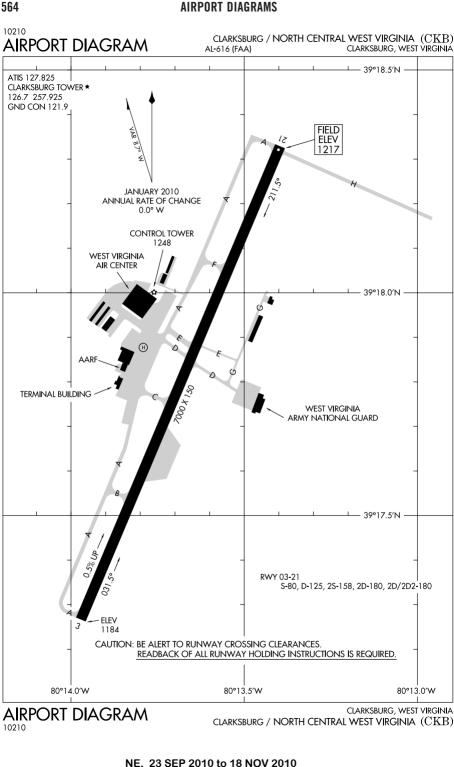


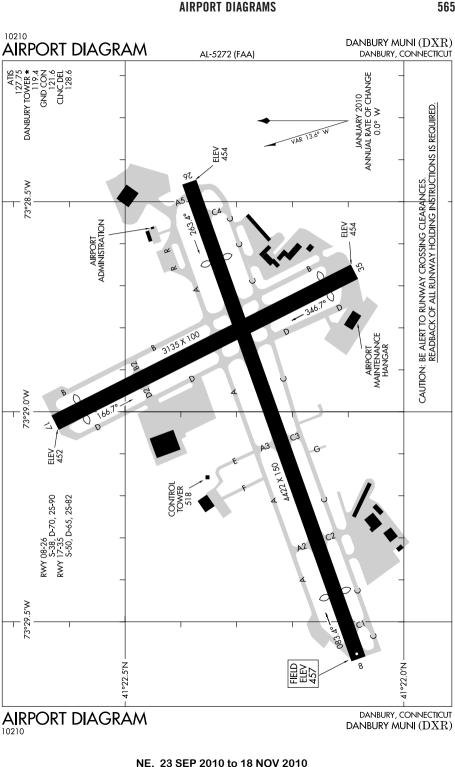


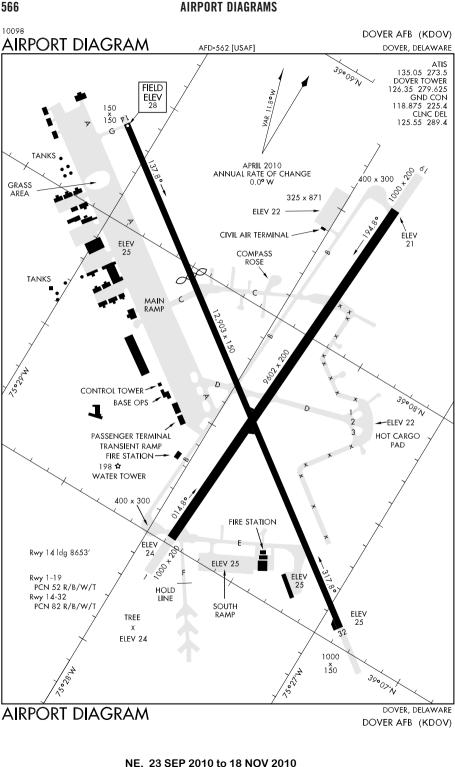


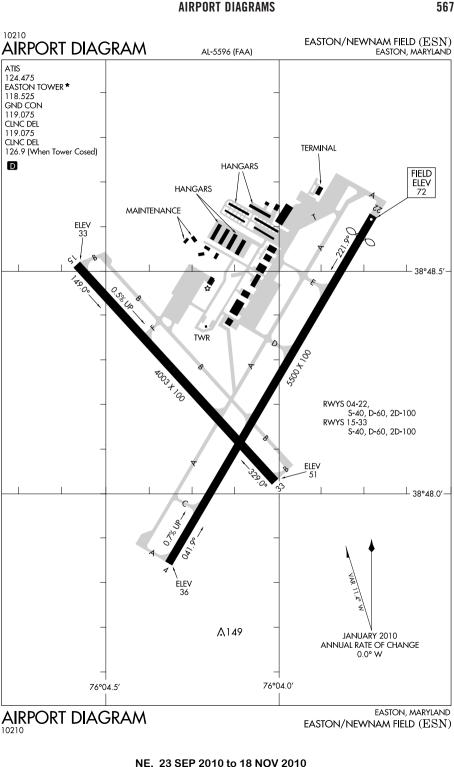


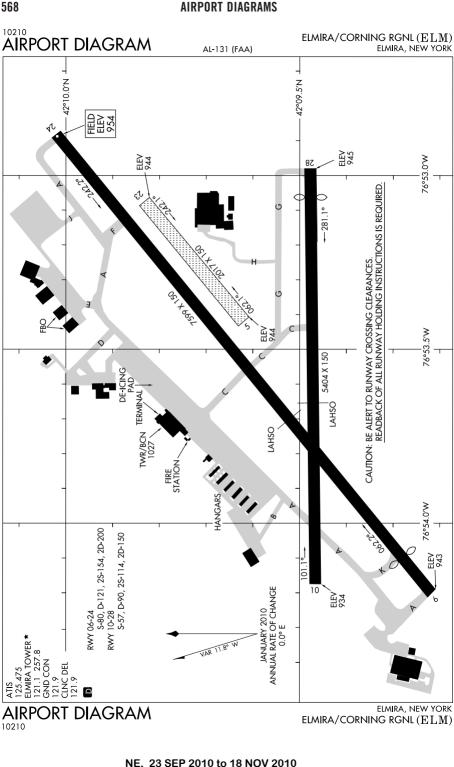


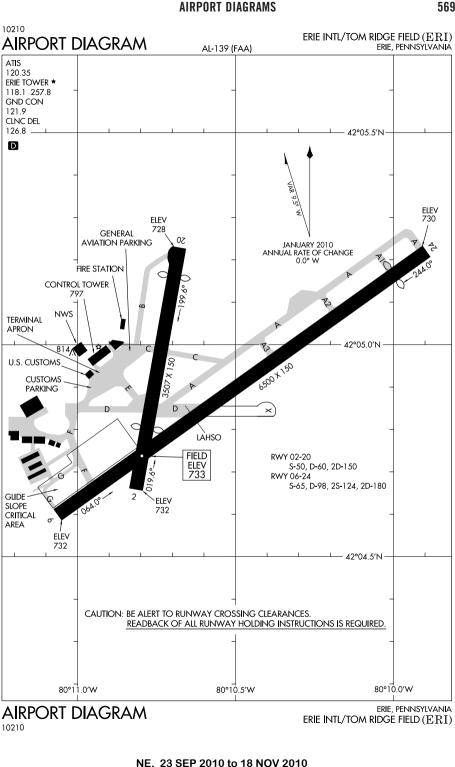


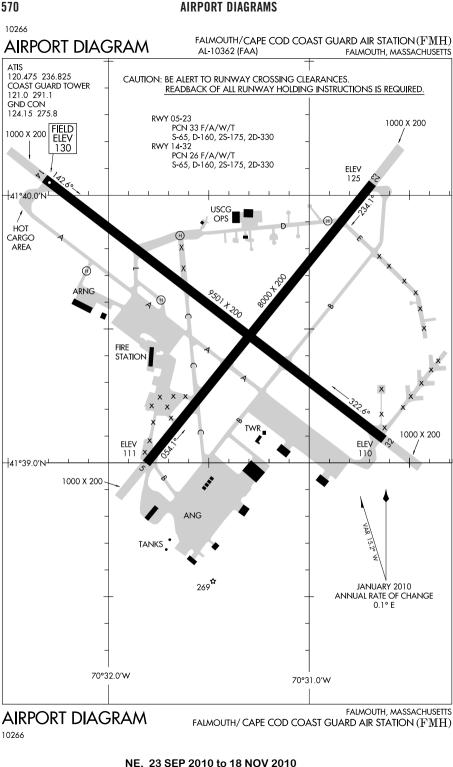


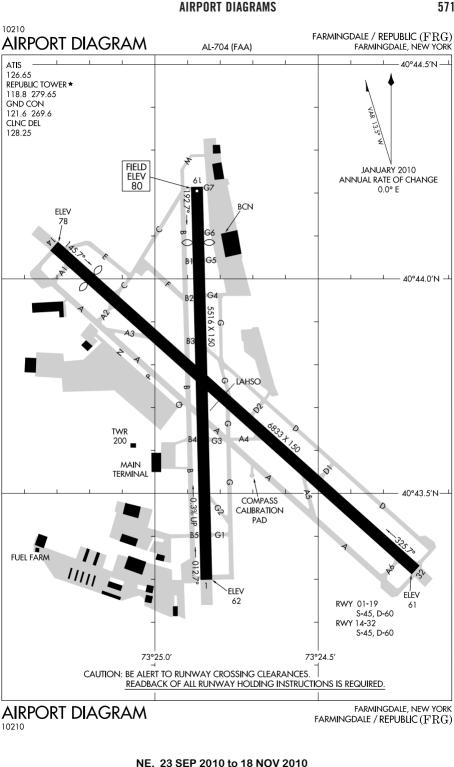


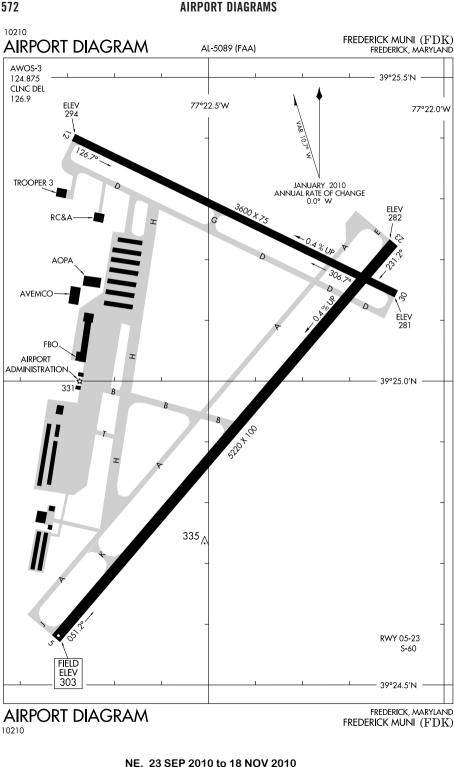


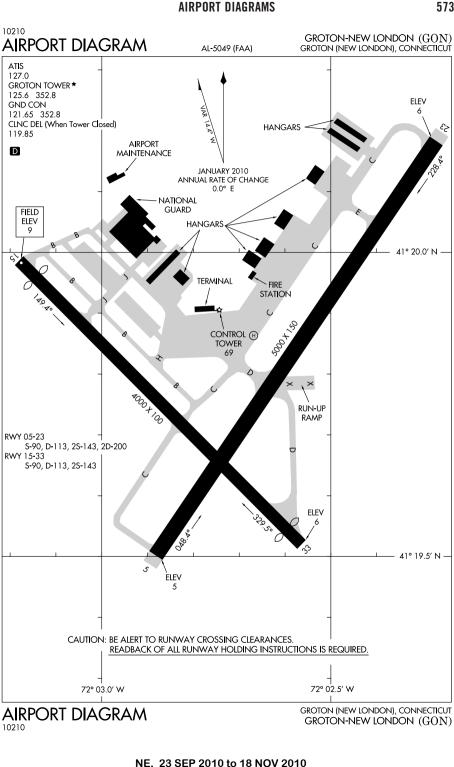


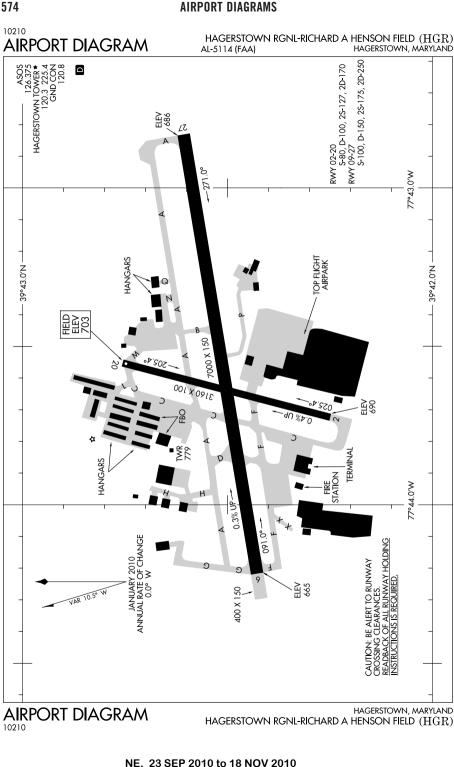


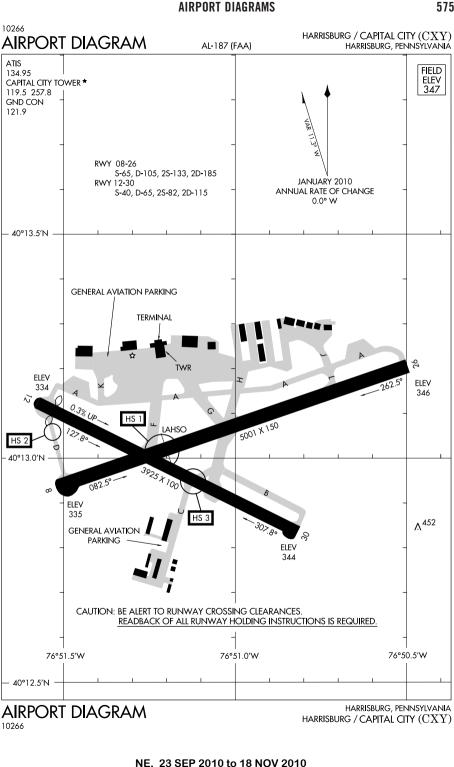


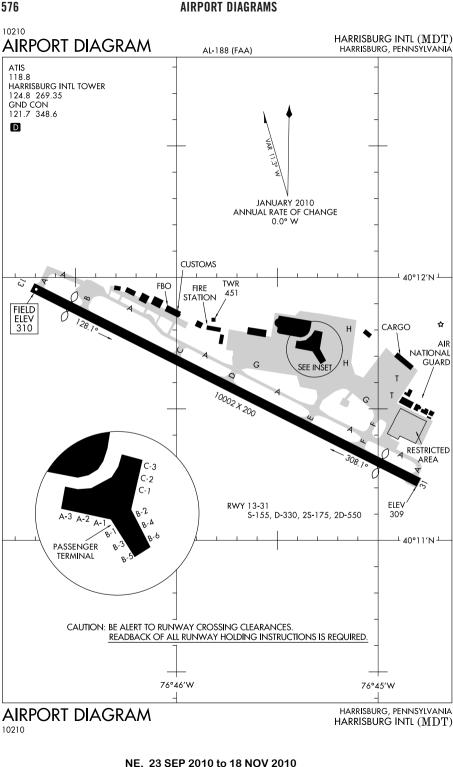


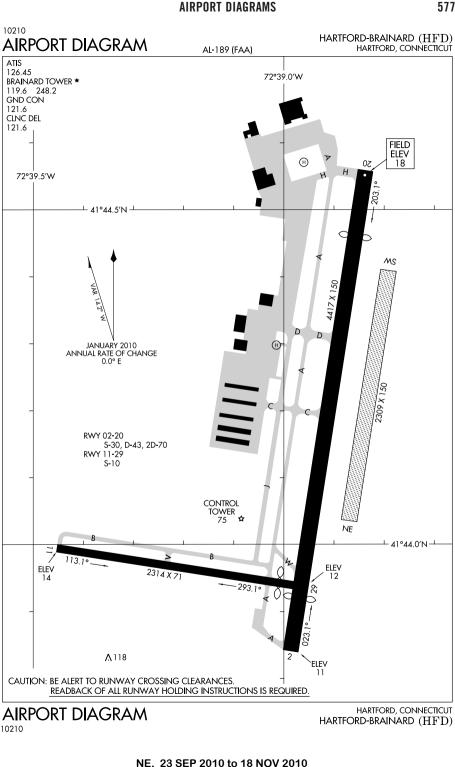


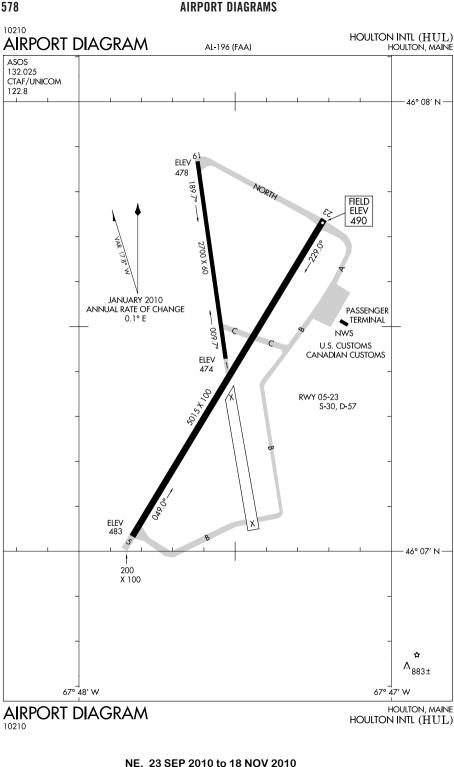


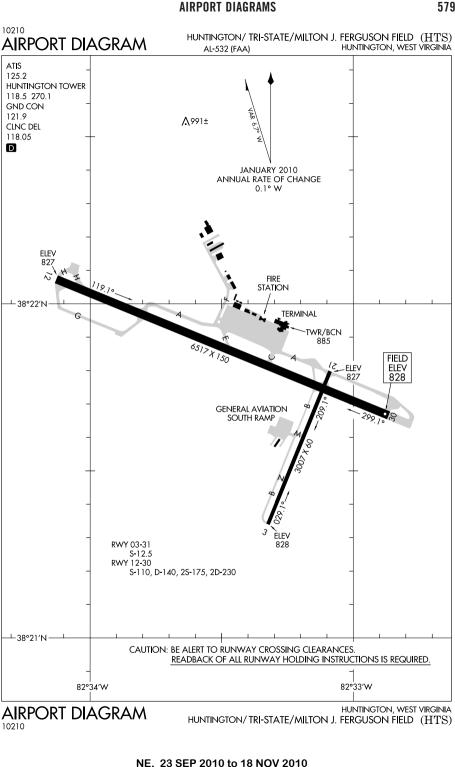


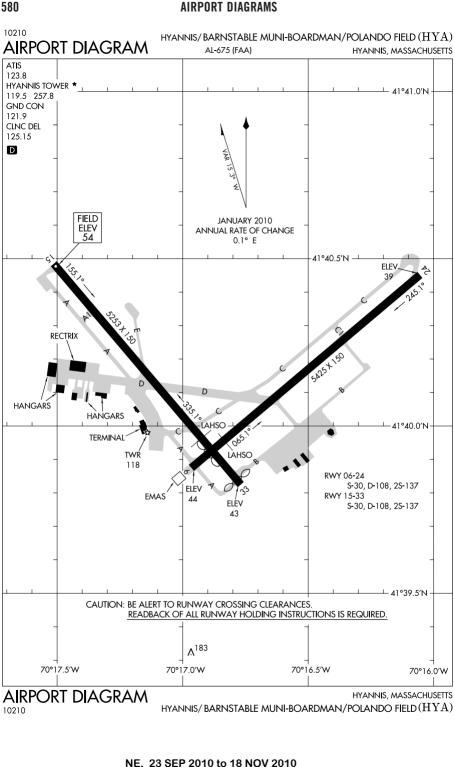


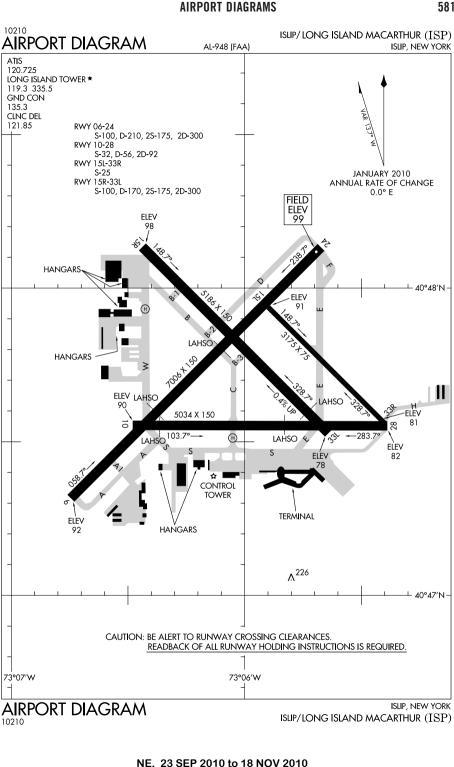


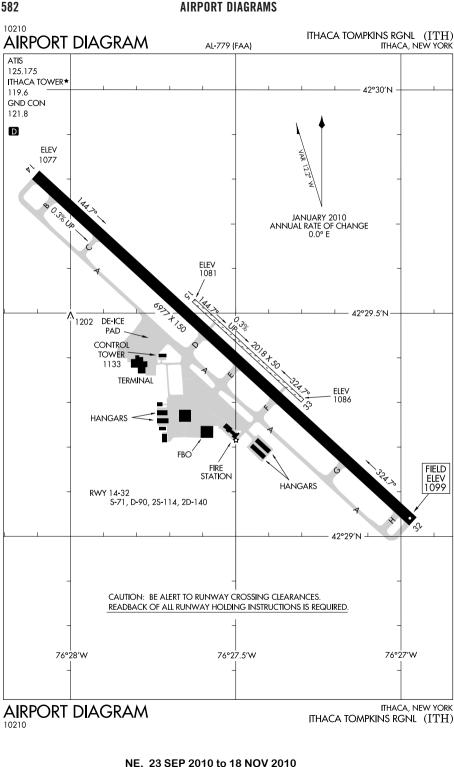


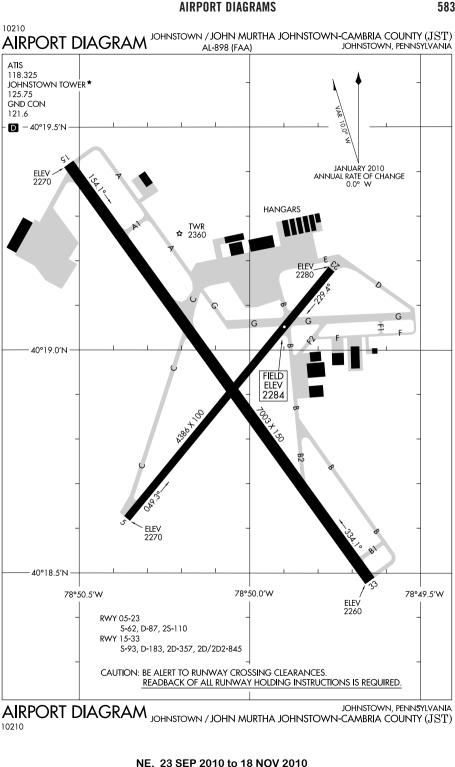


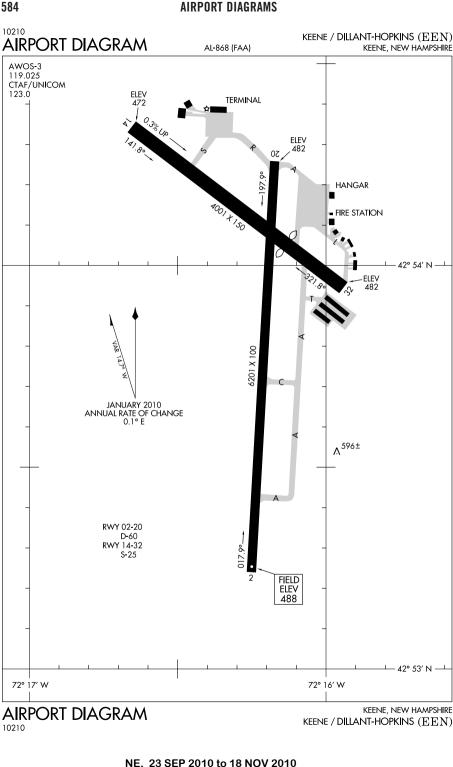


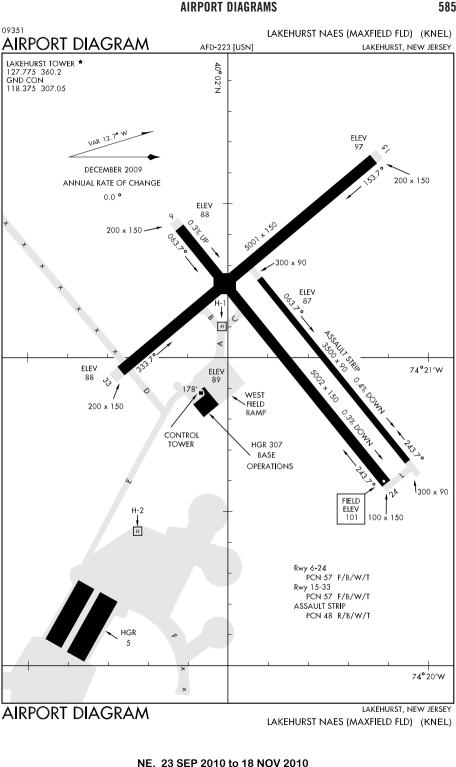


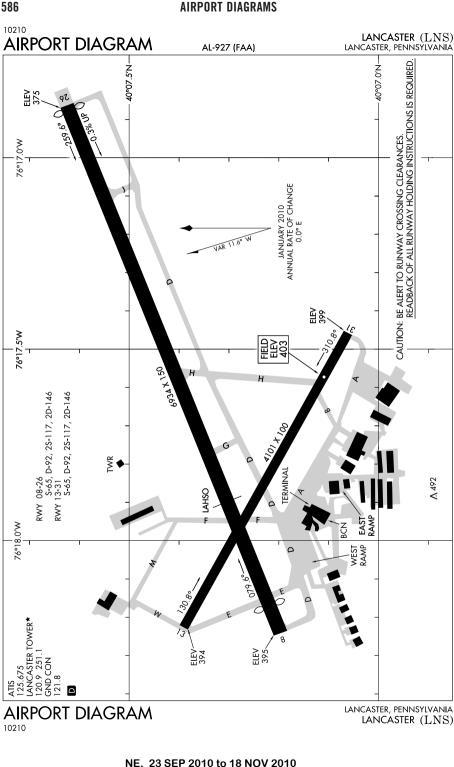


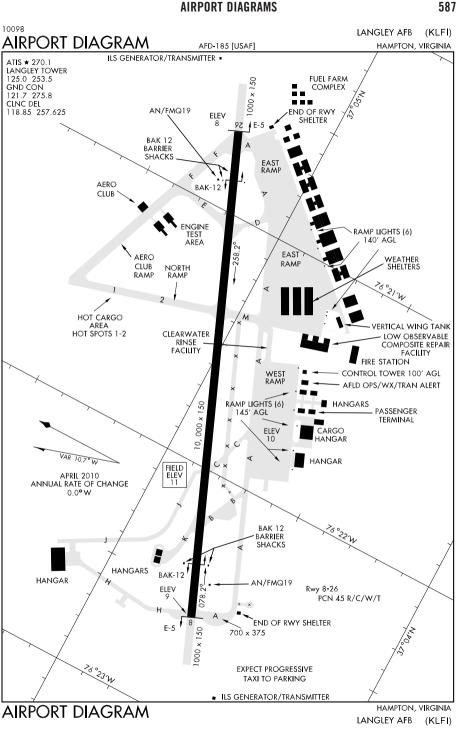




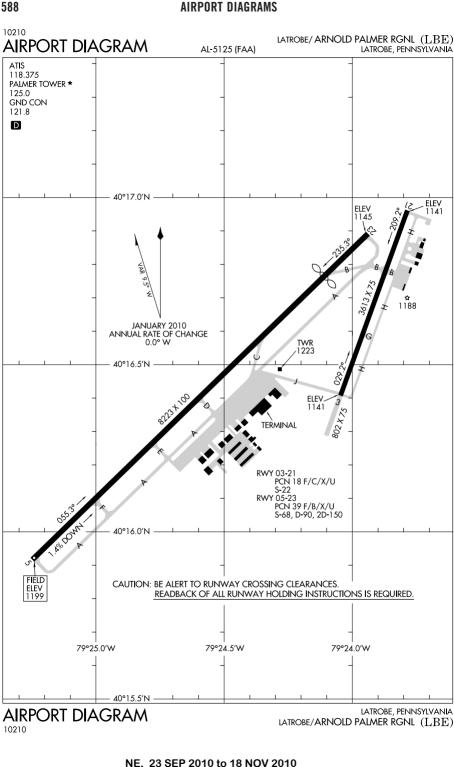


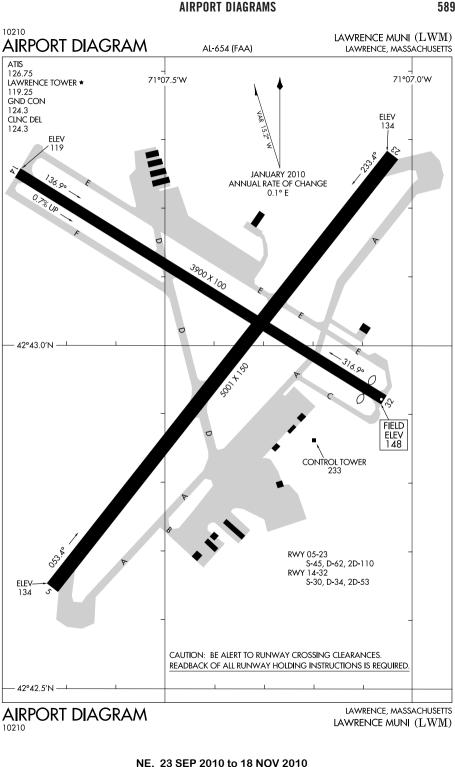


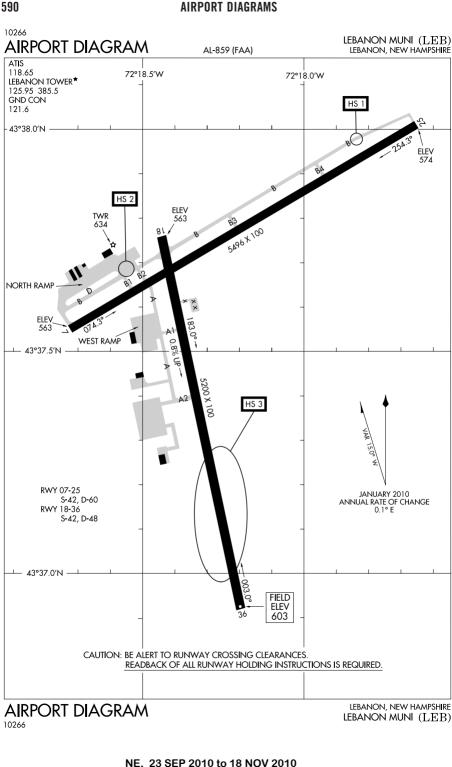


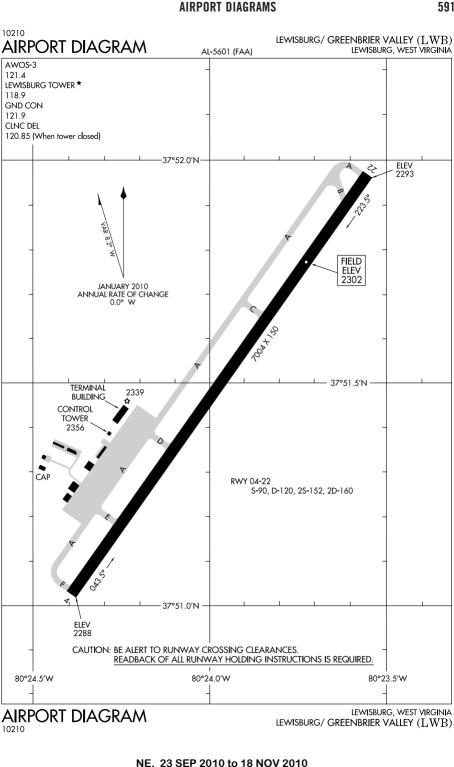


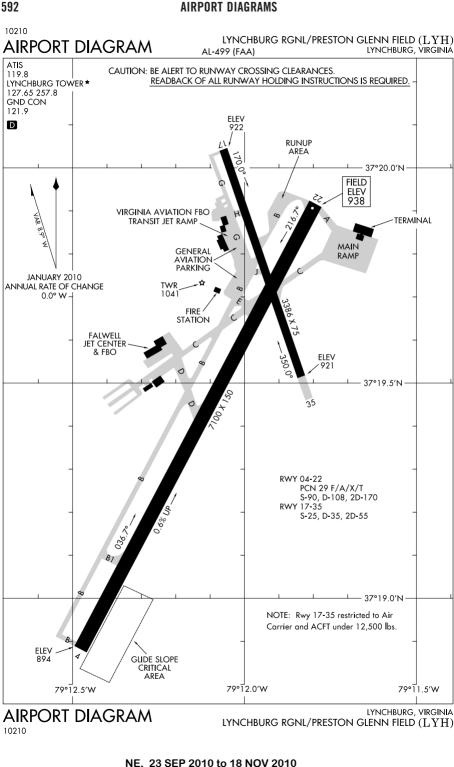
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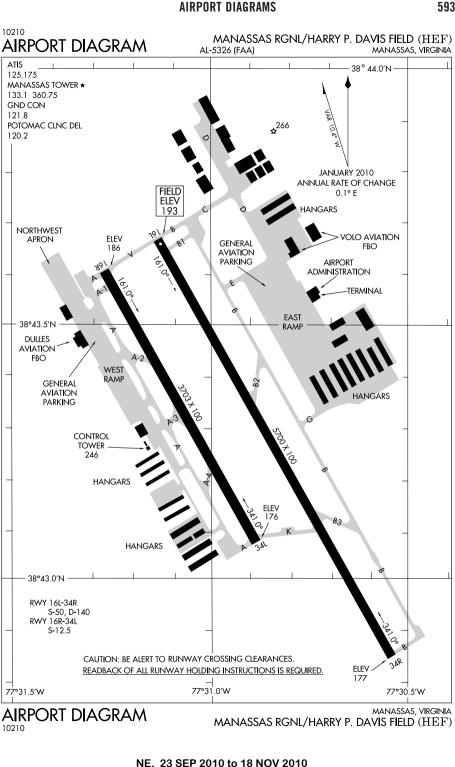


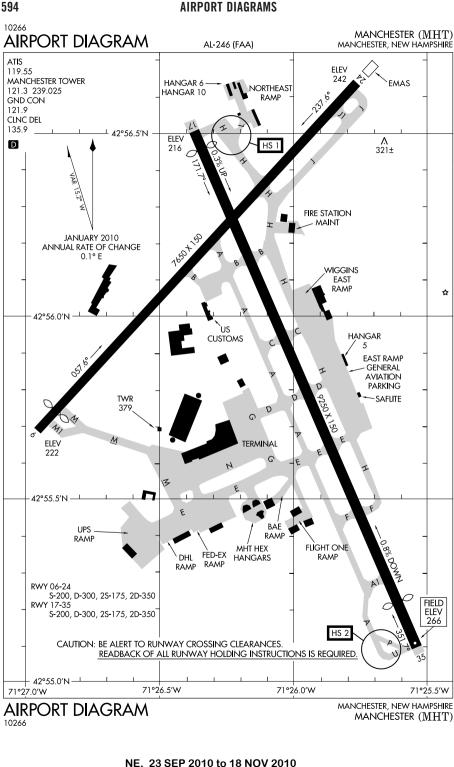


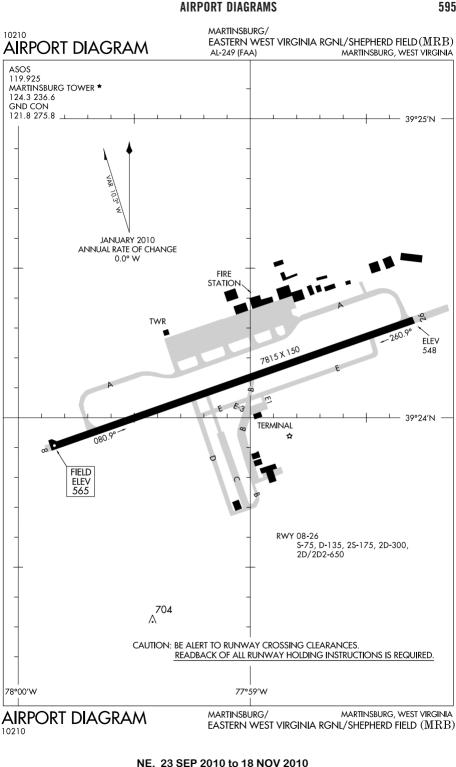


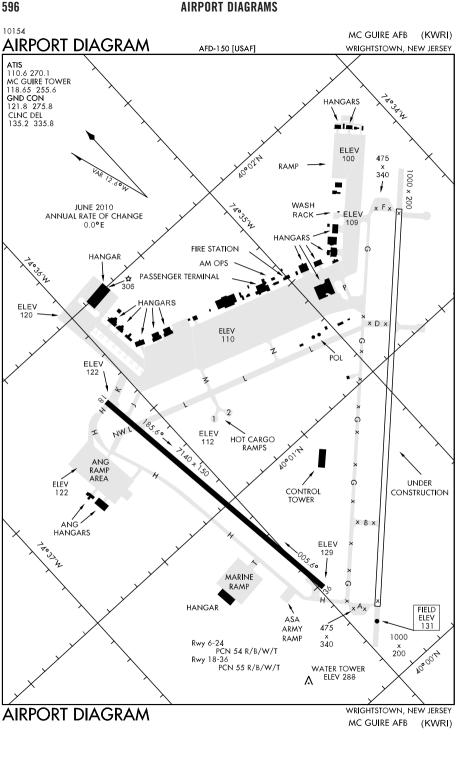




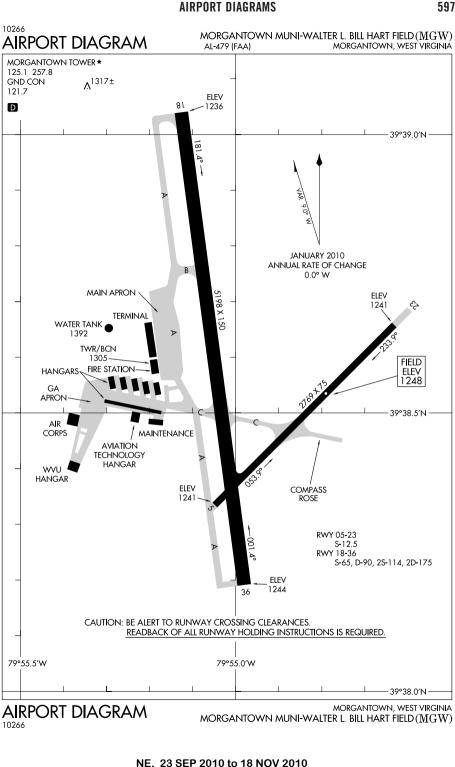


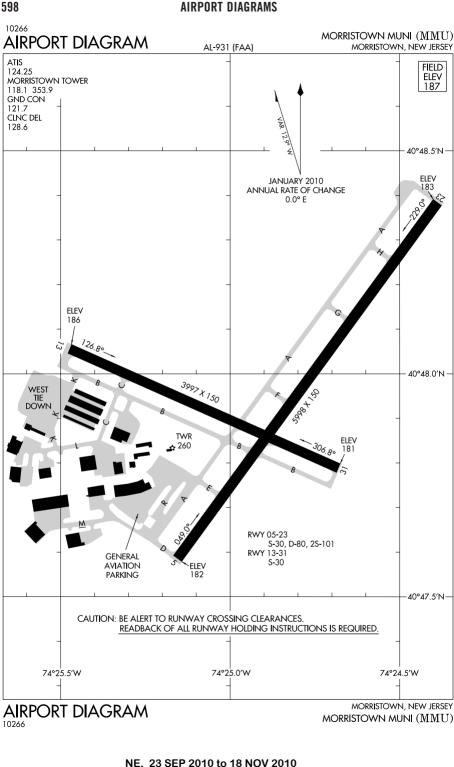


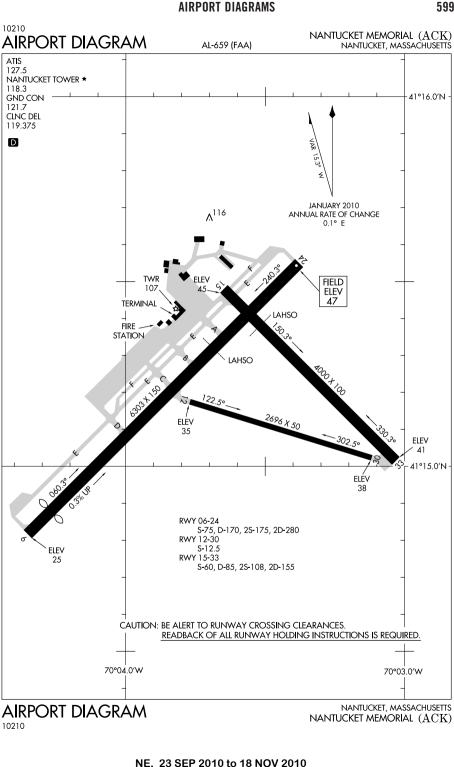


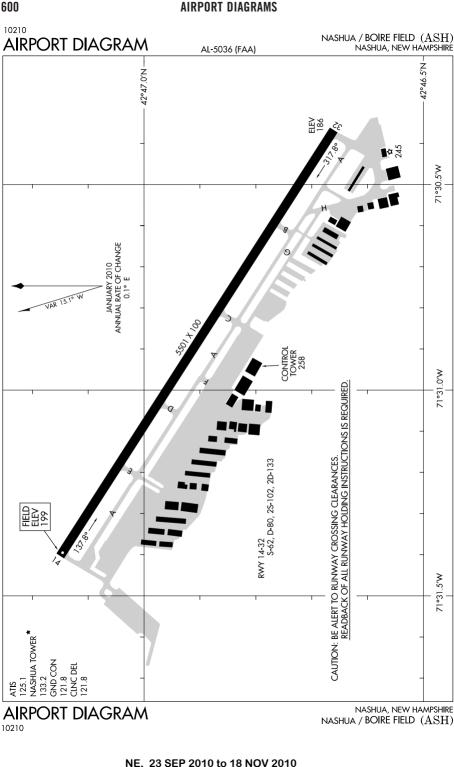


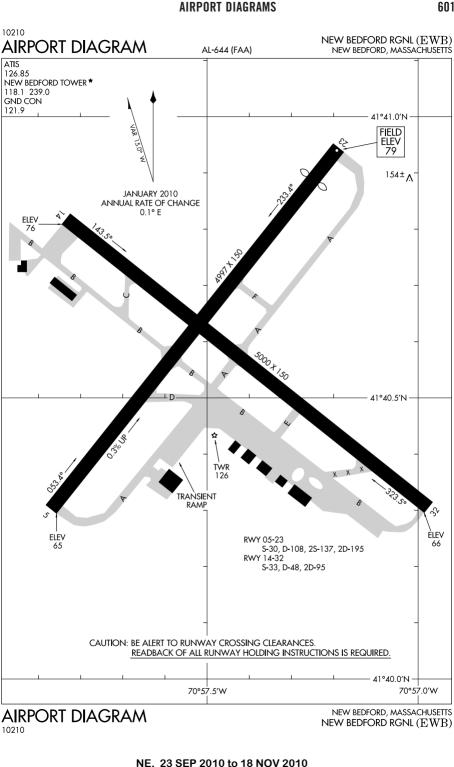
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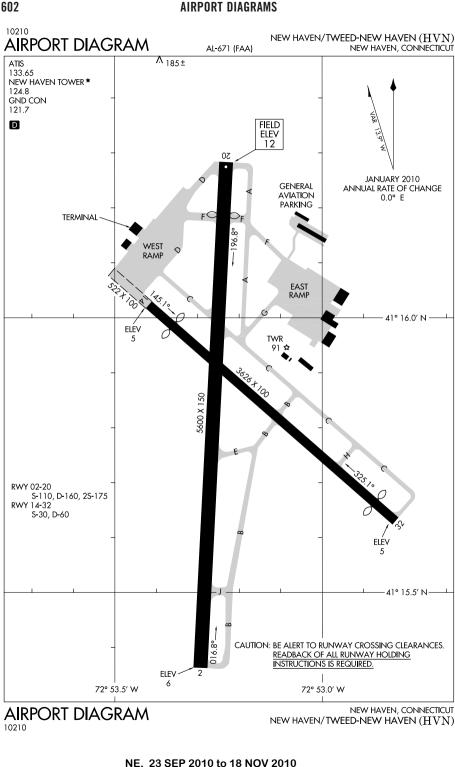


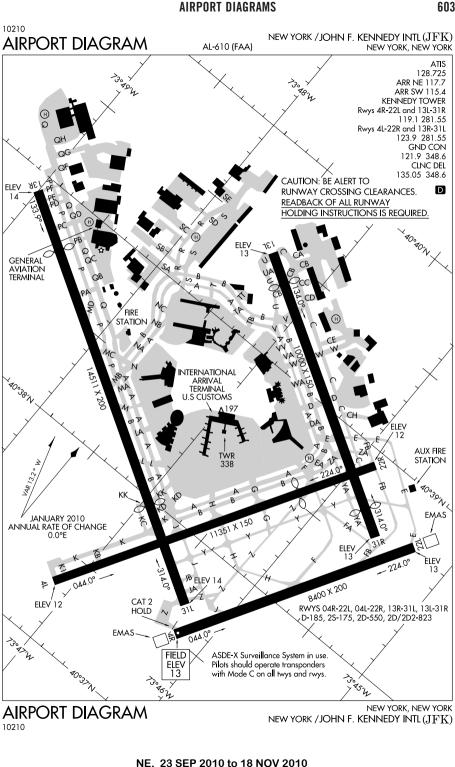


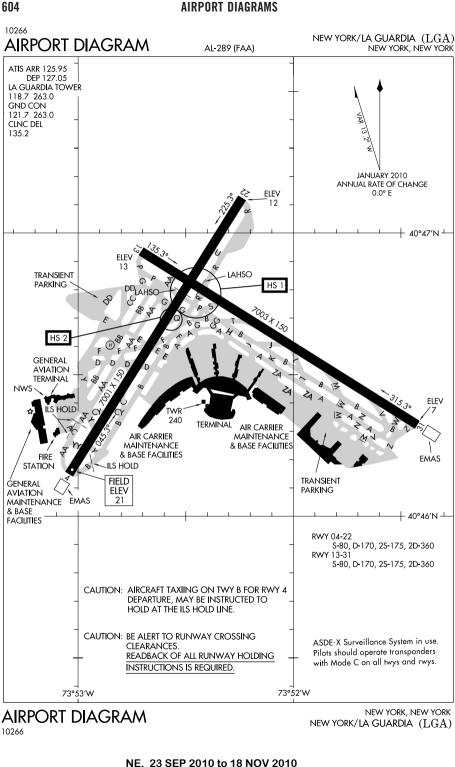


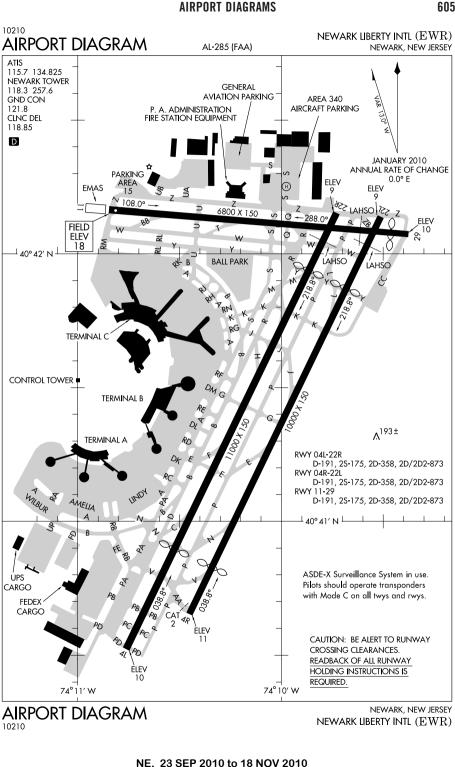


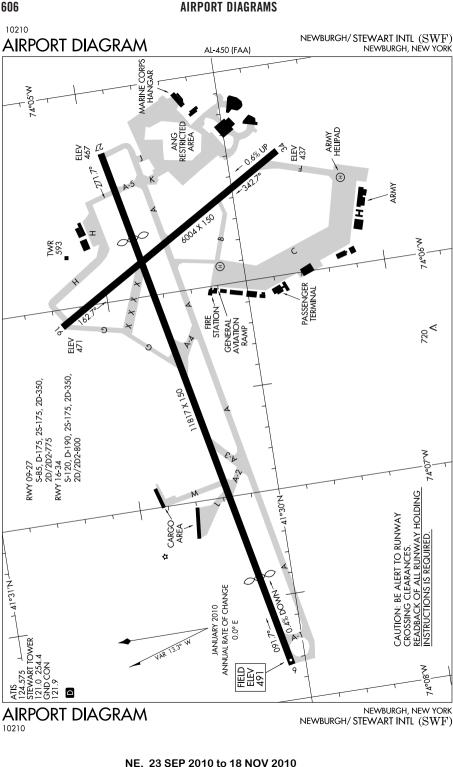


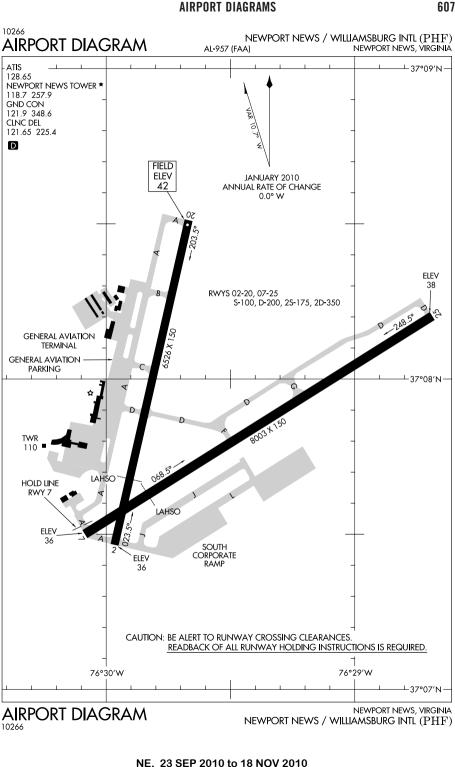


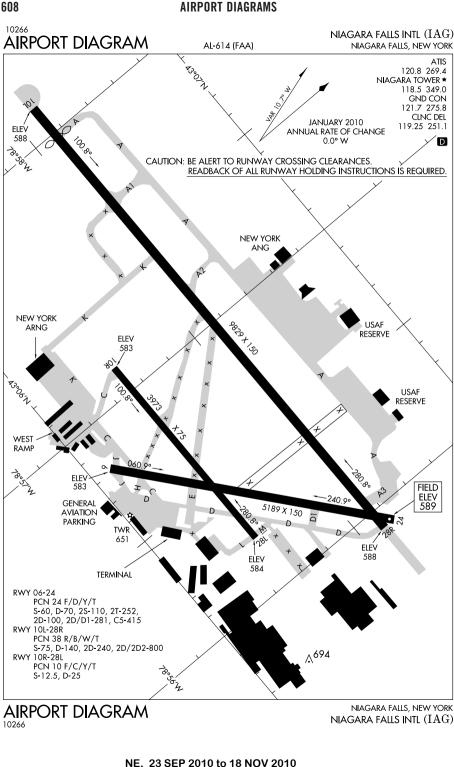


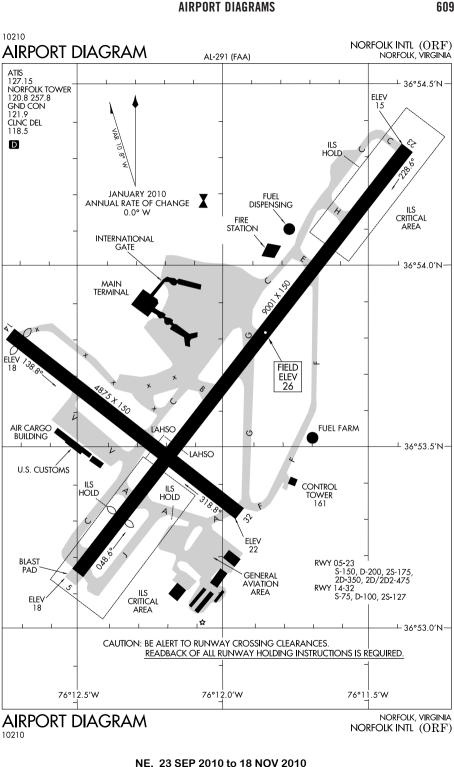


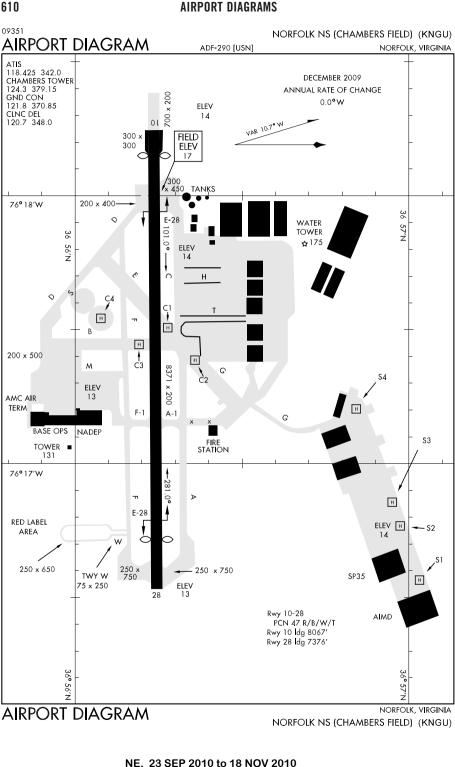


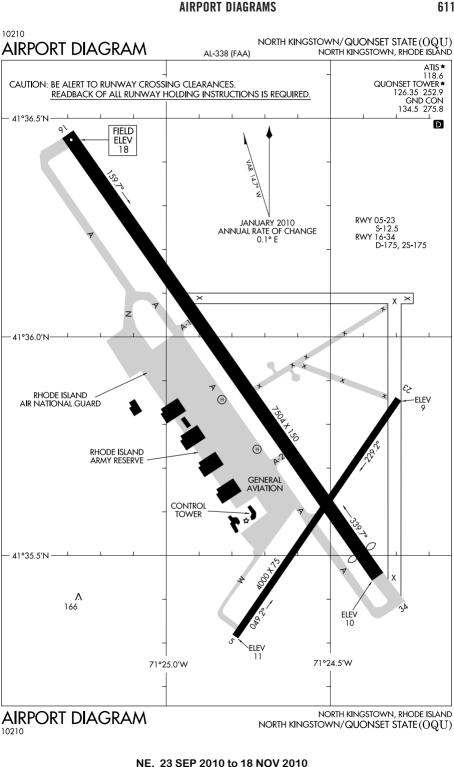


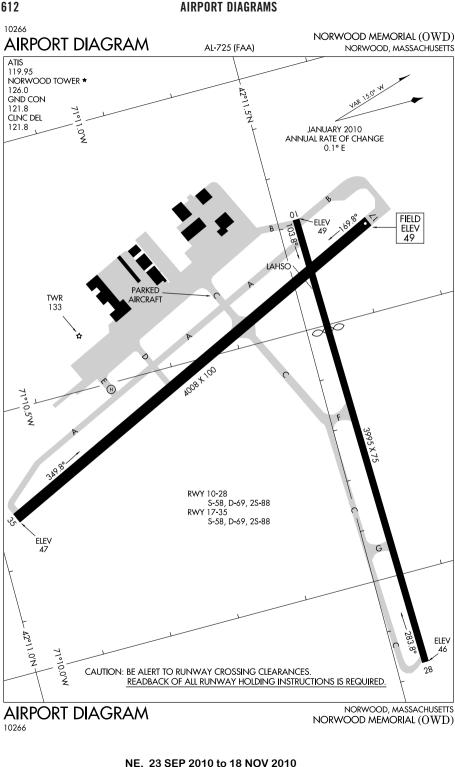


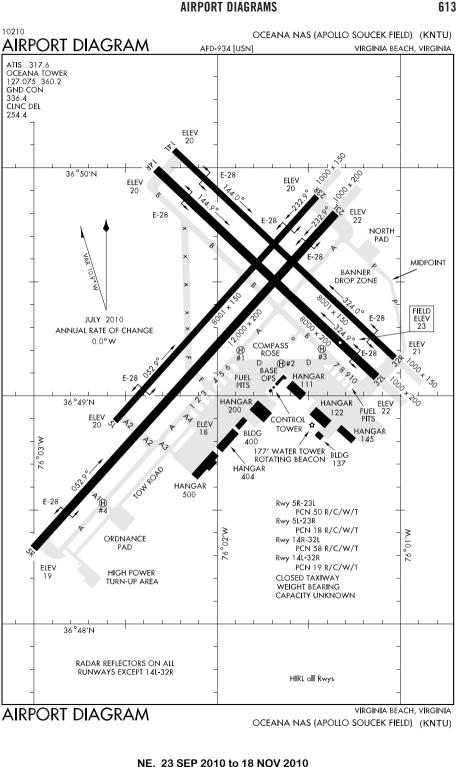


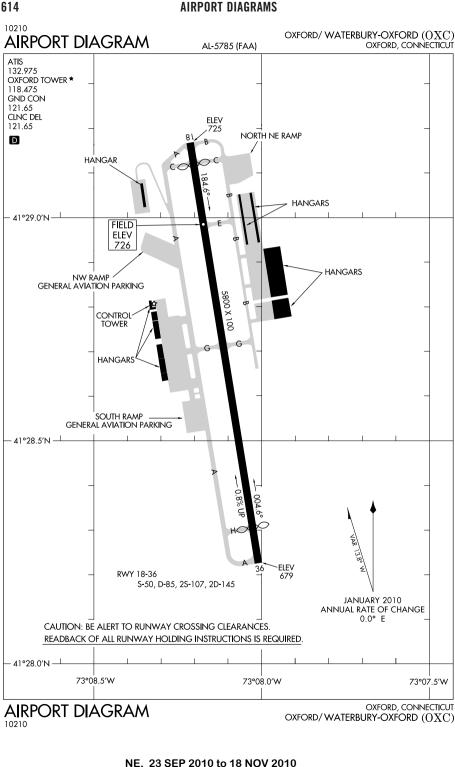


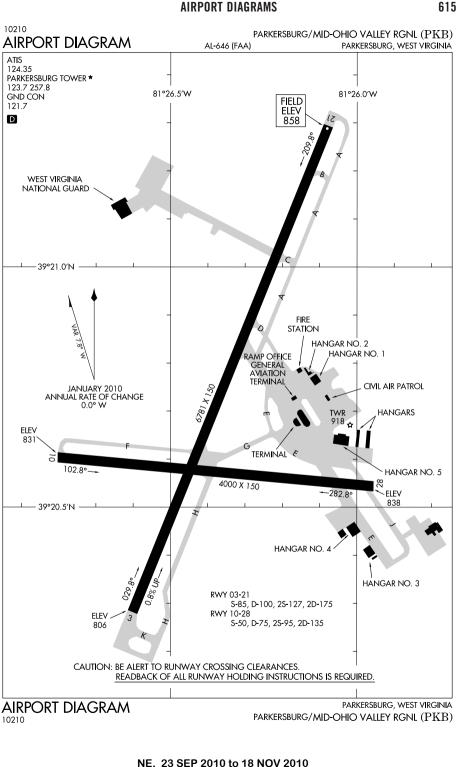


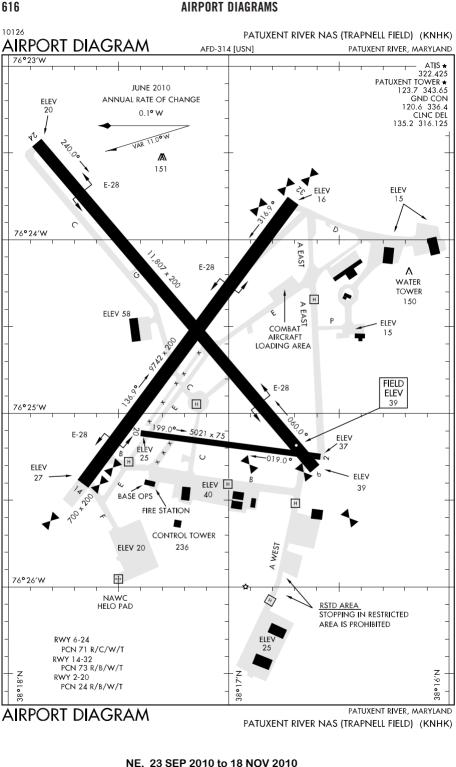


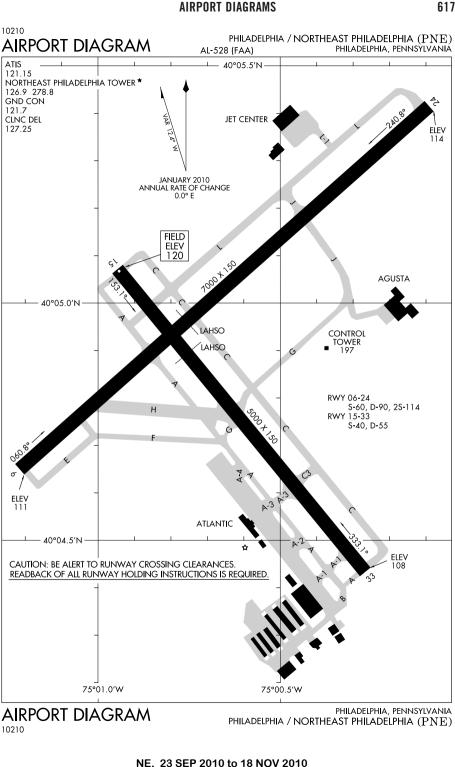


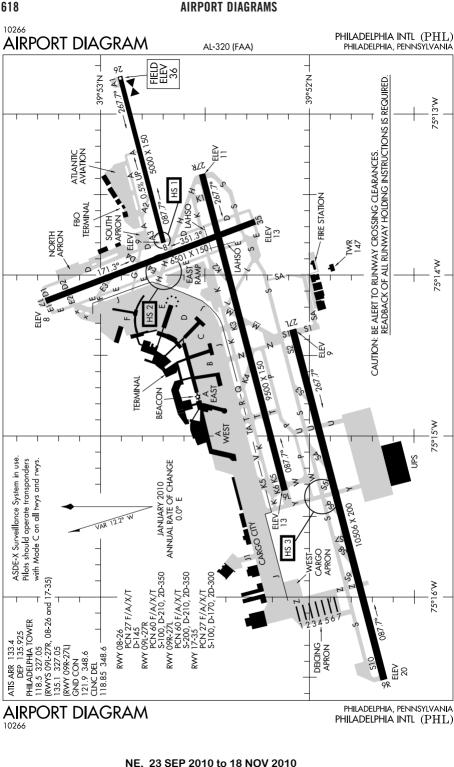


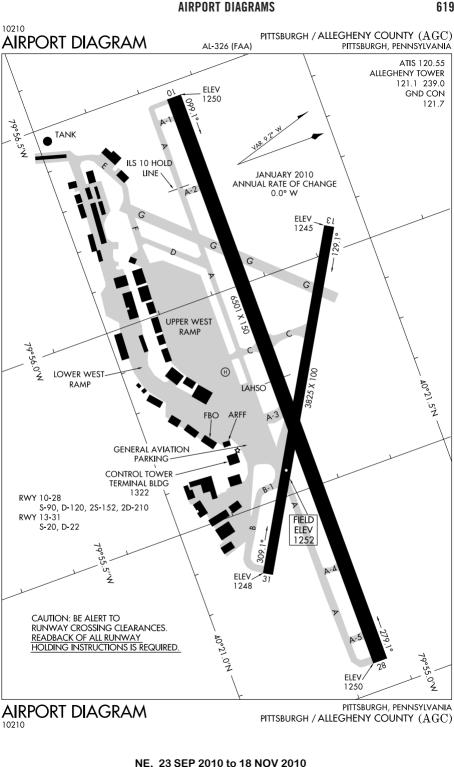


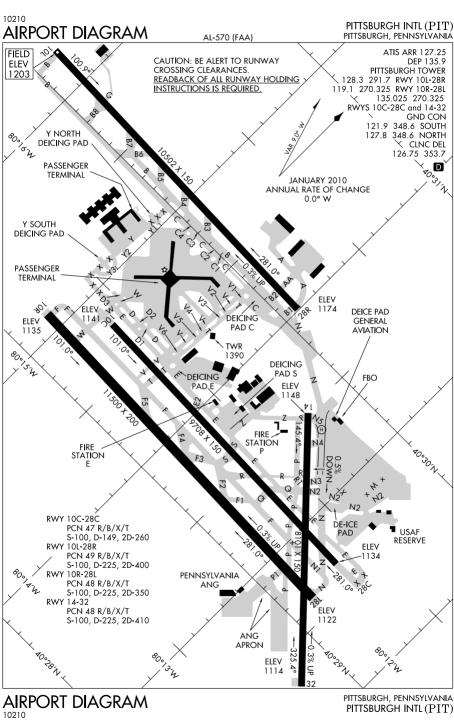




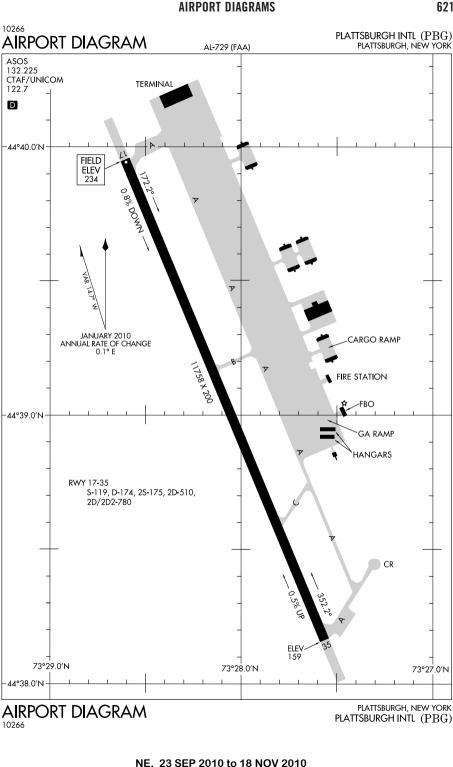


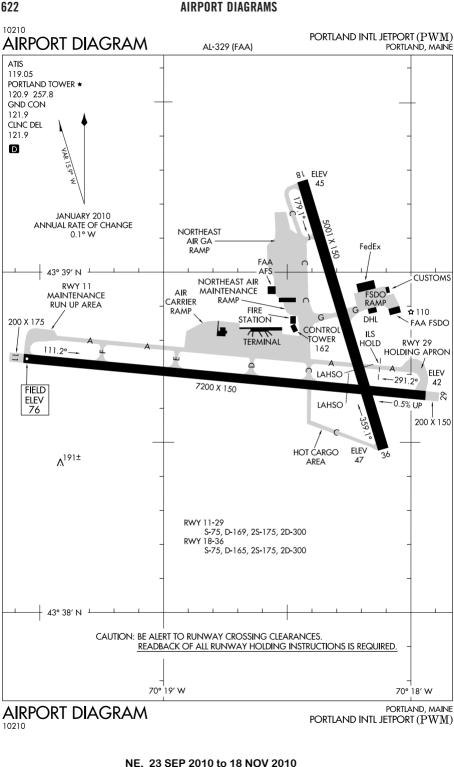


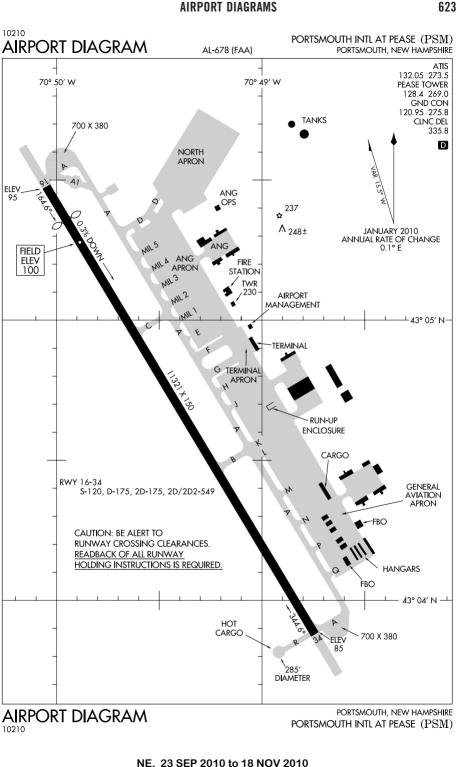


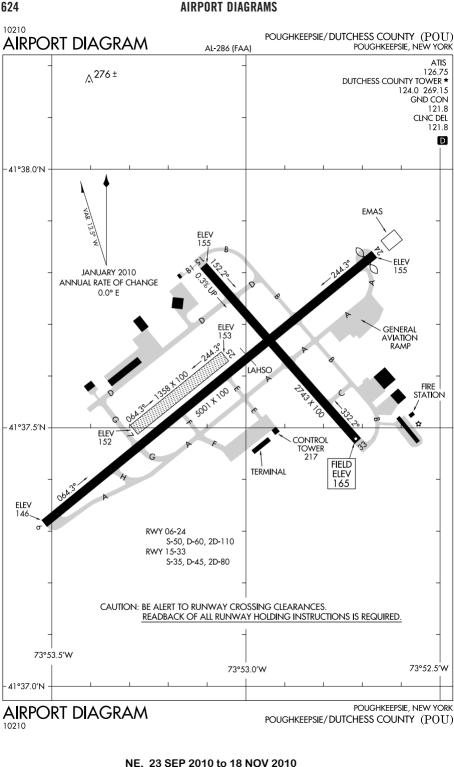


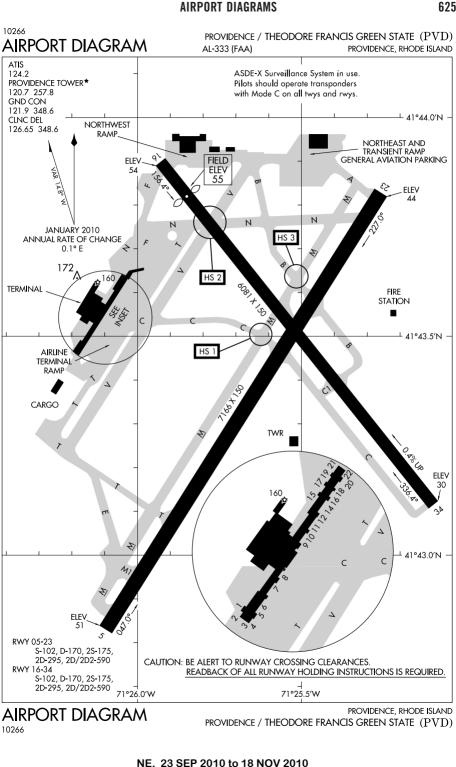
NE. 23 SEP 2010 to 18 NOV 2010

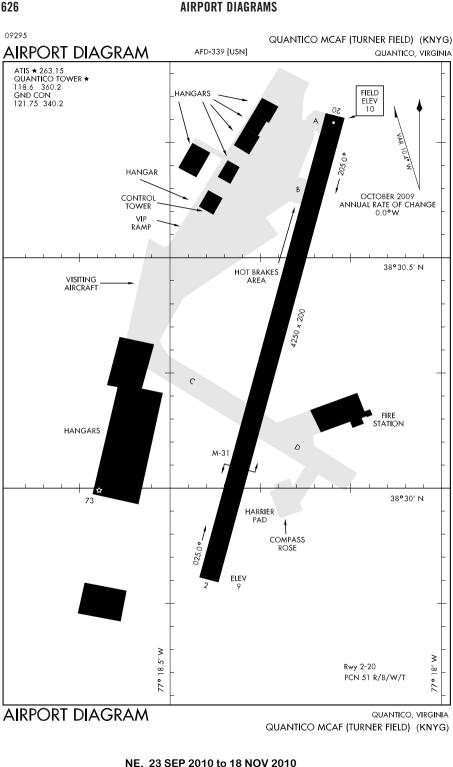


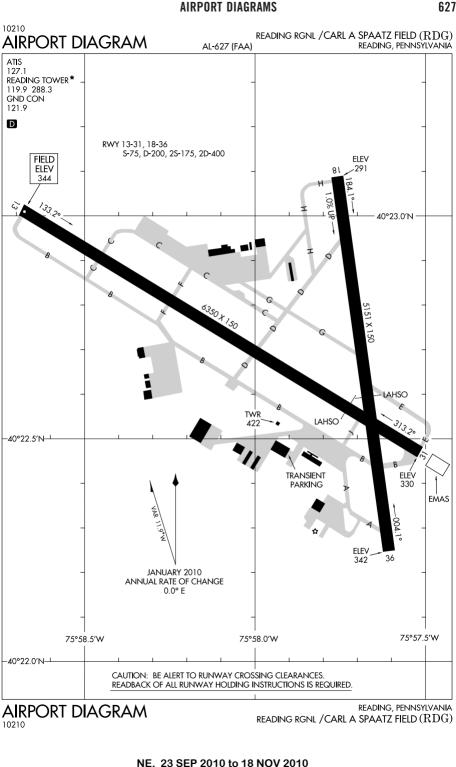


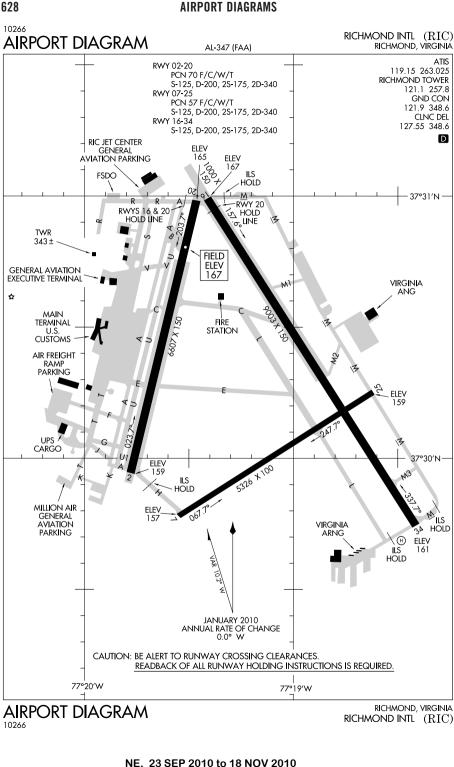


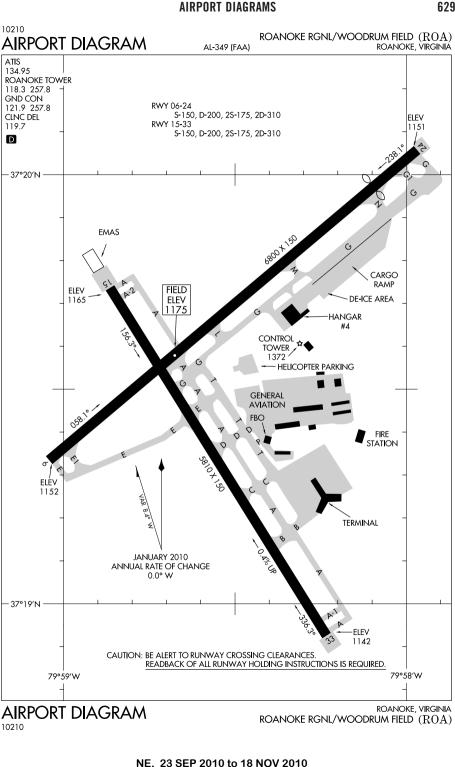


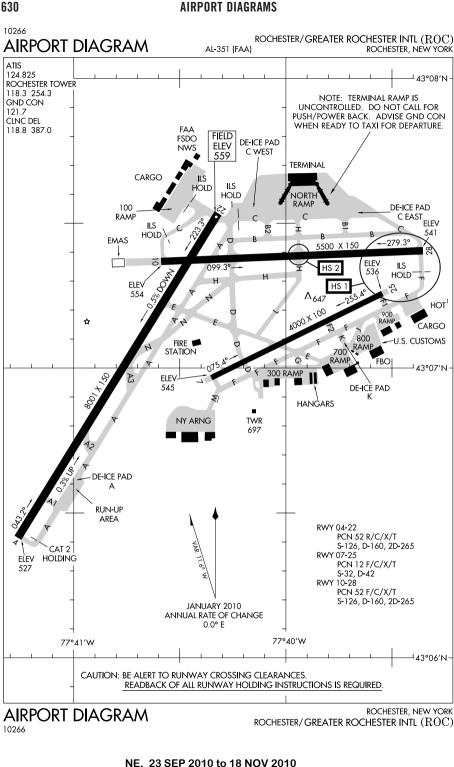


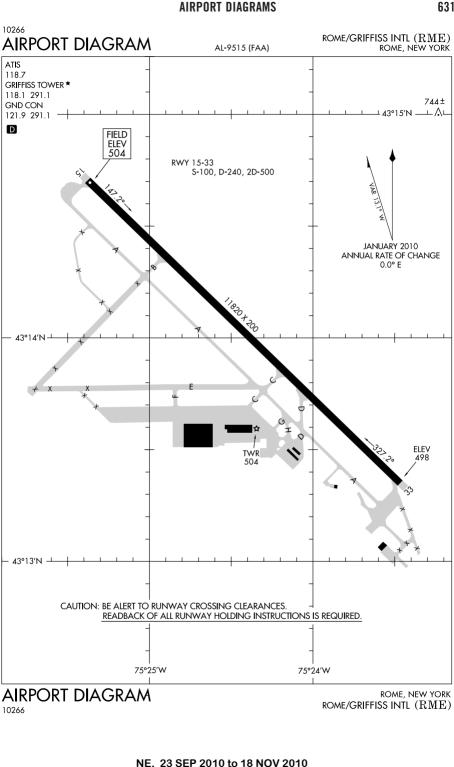


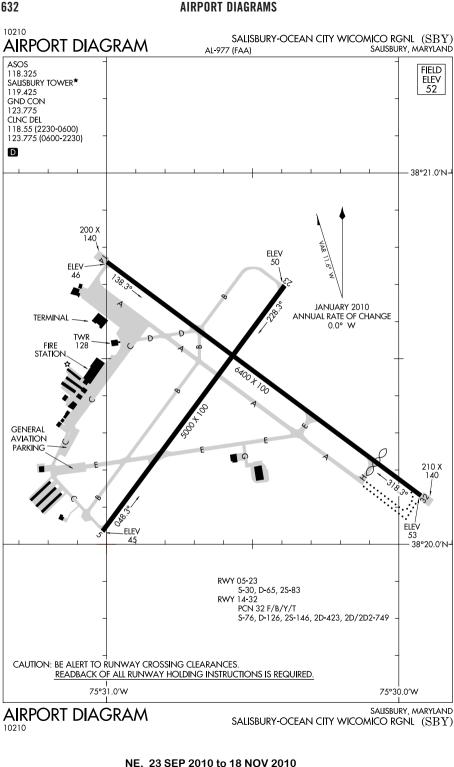


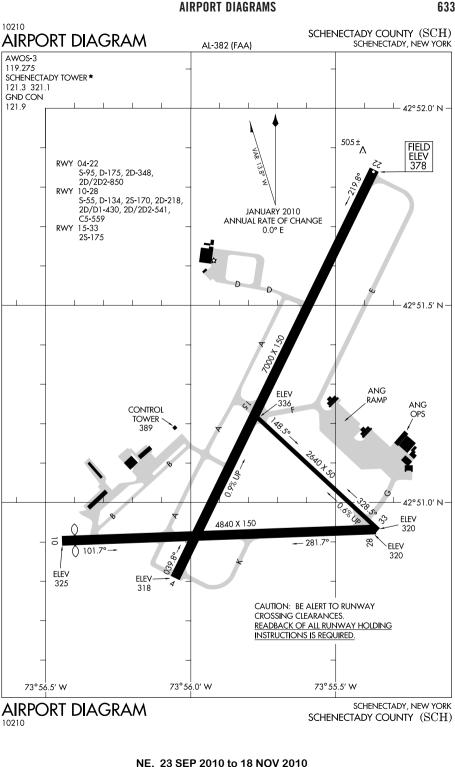


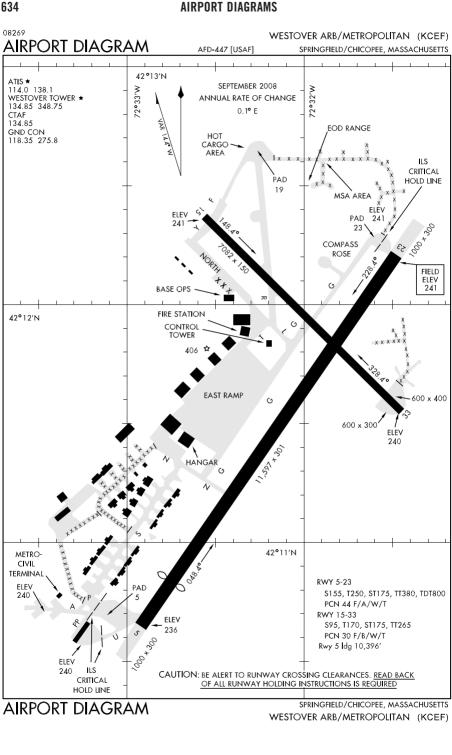




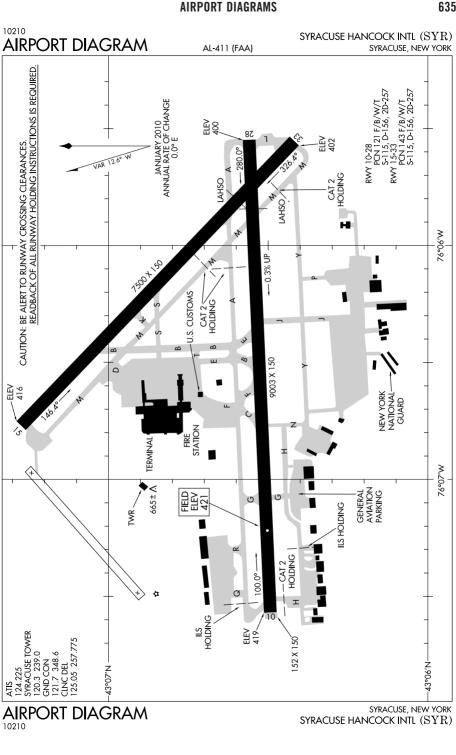




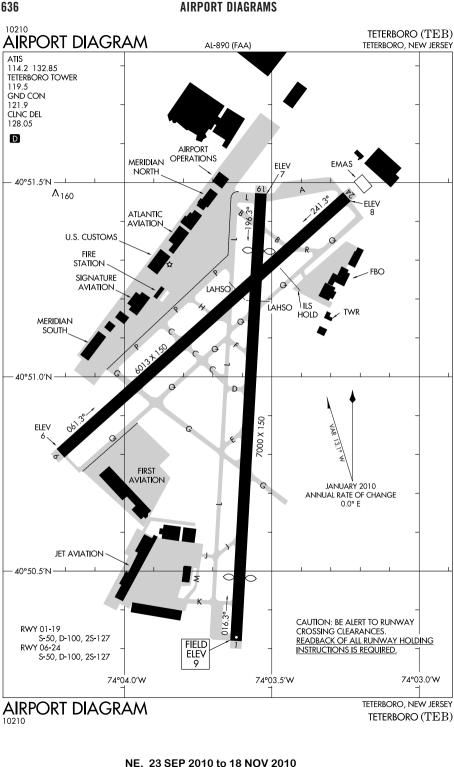


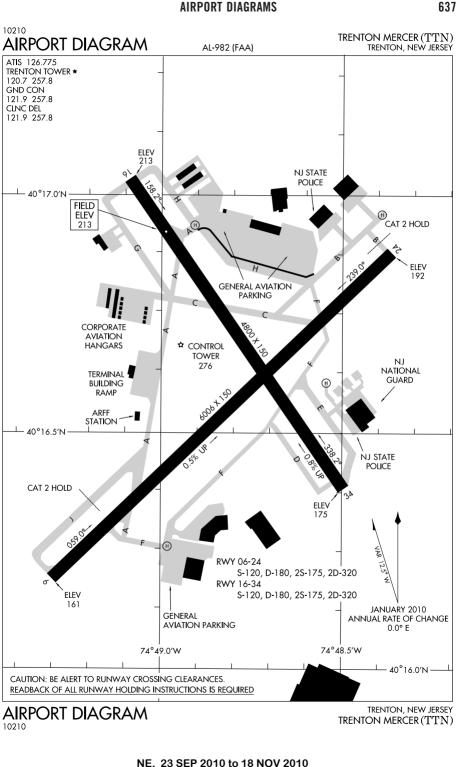


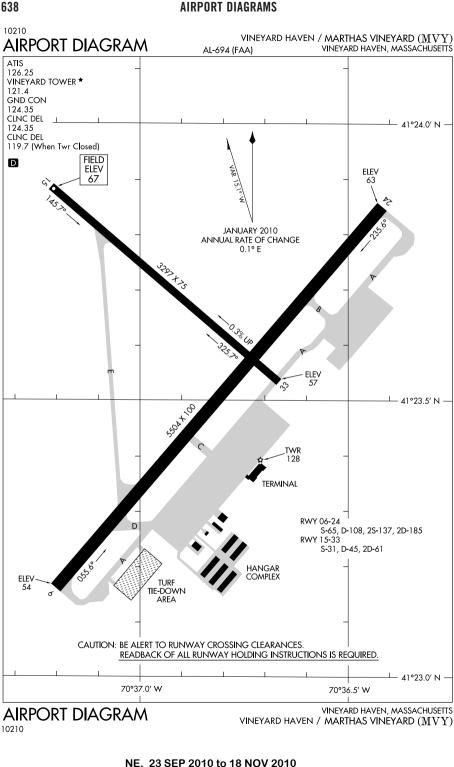
NE. 23 SEP 2010 to 18 NOV 2010

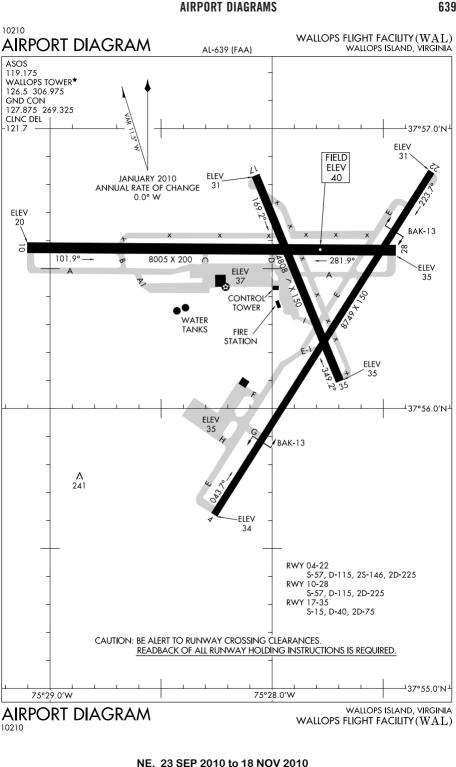


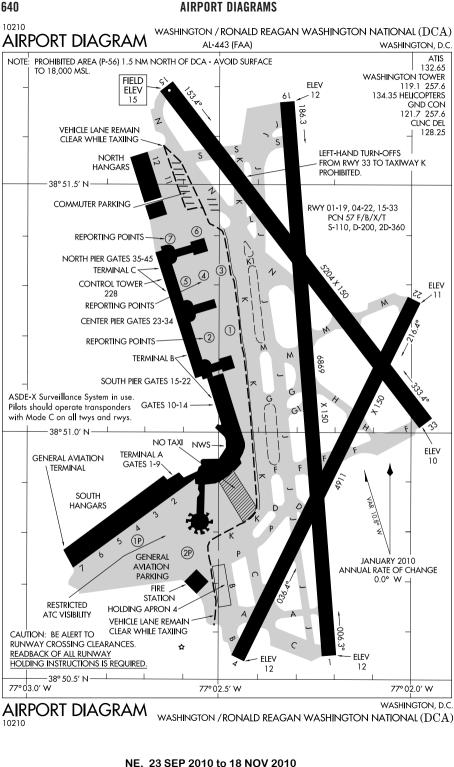
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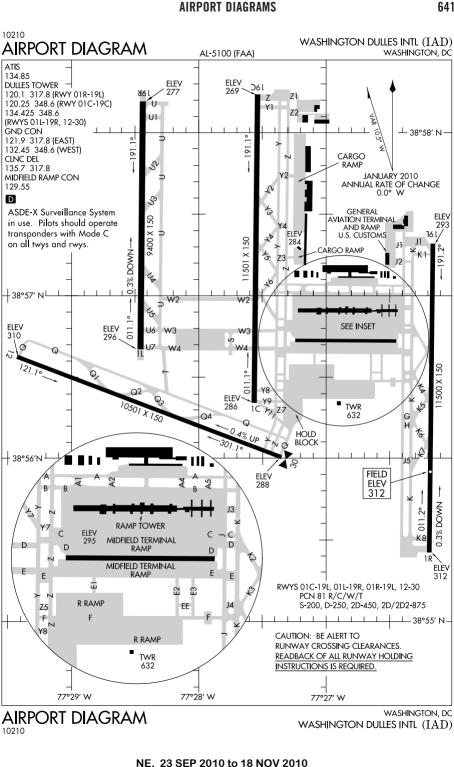


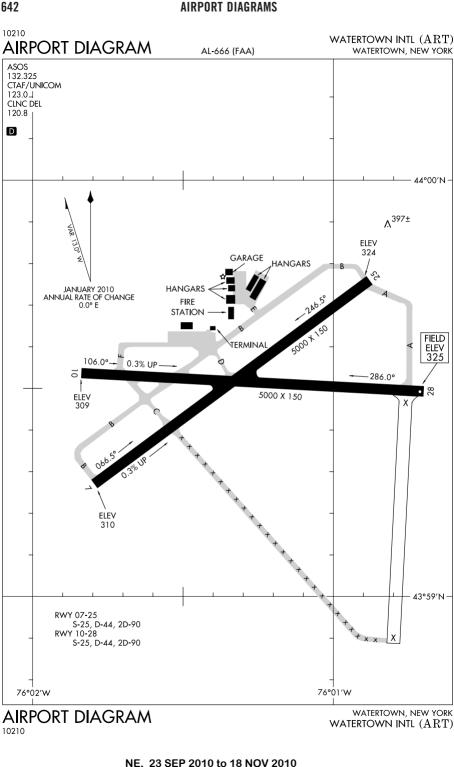


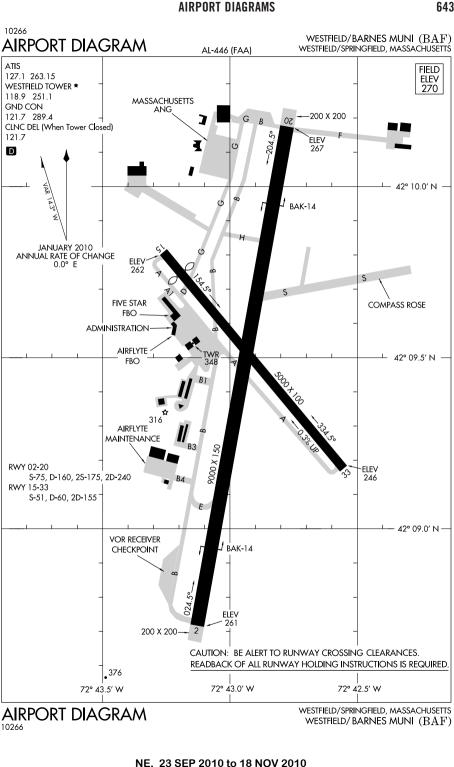


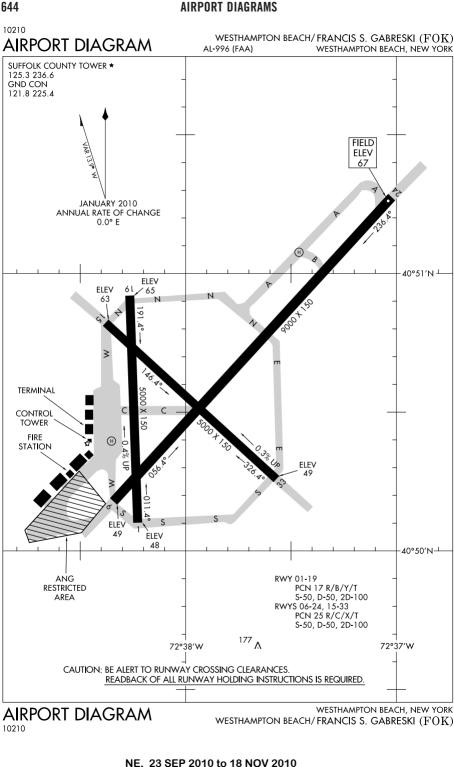


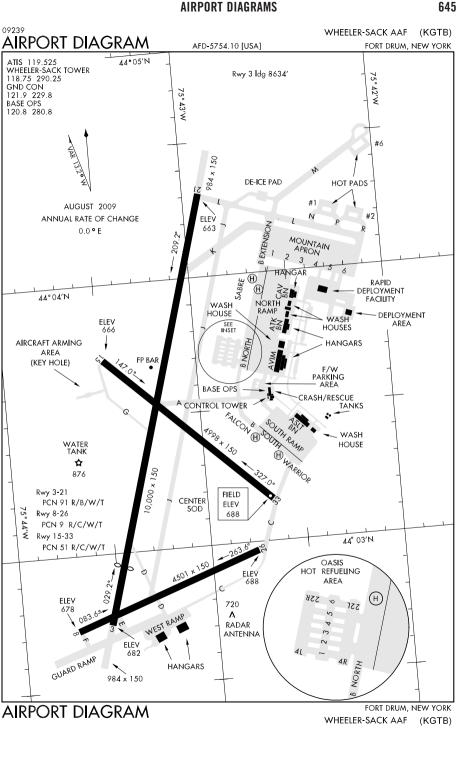




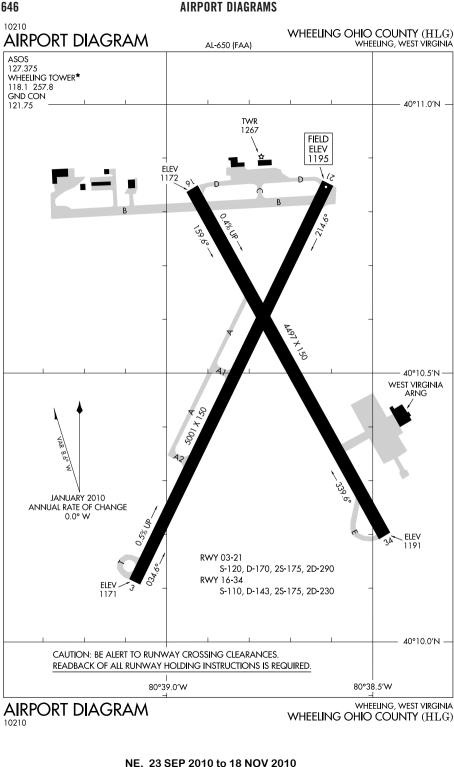


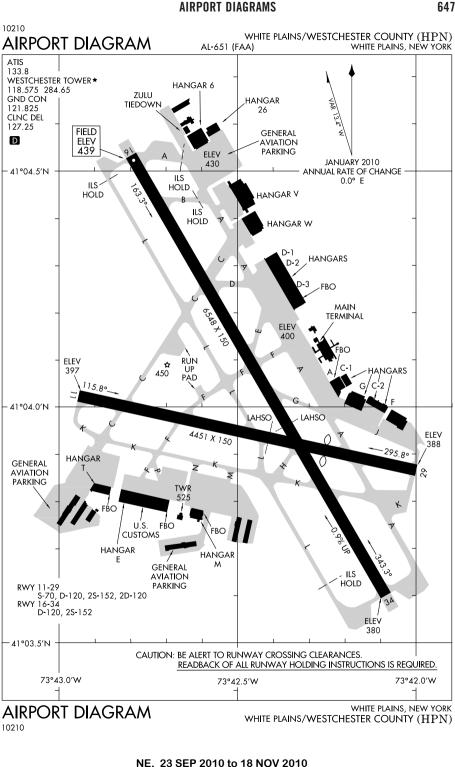


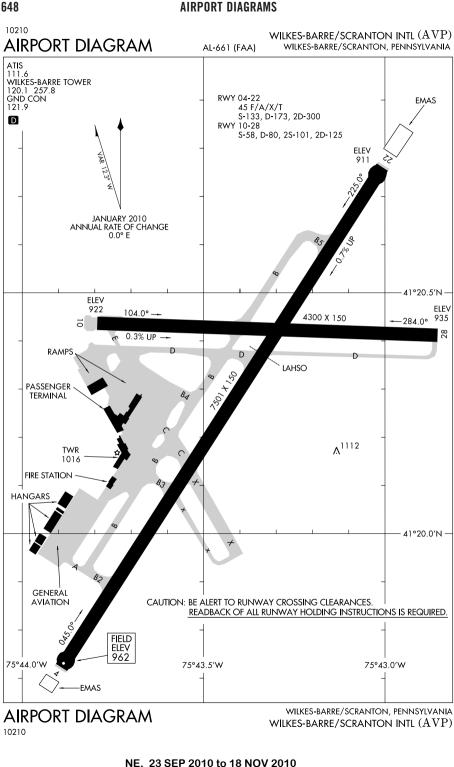


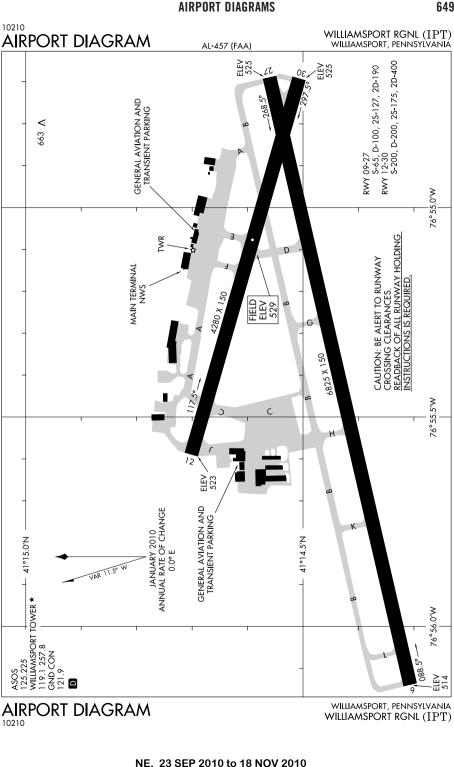


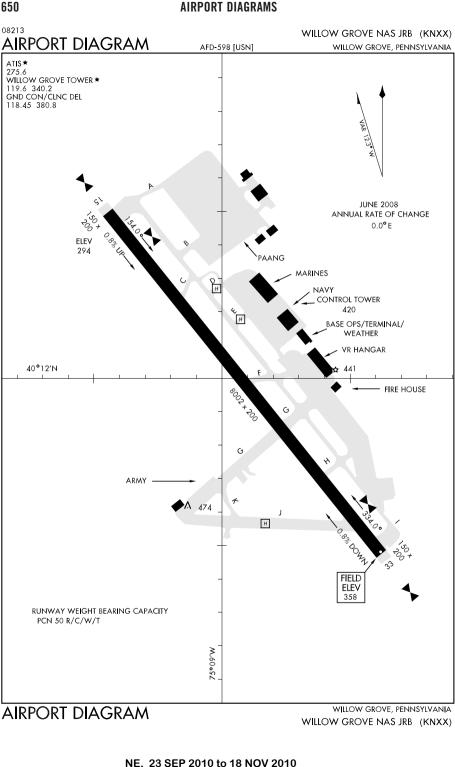
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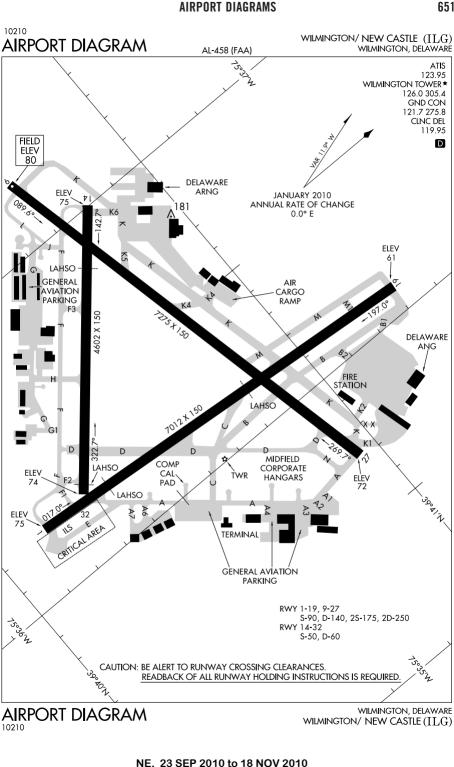


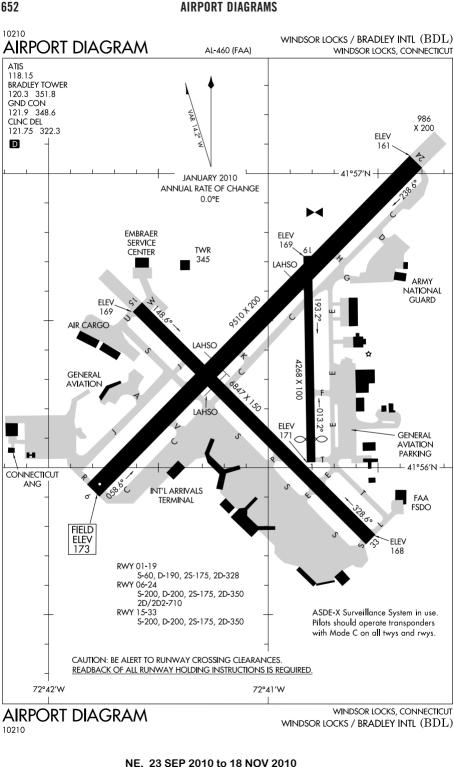


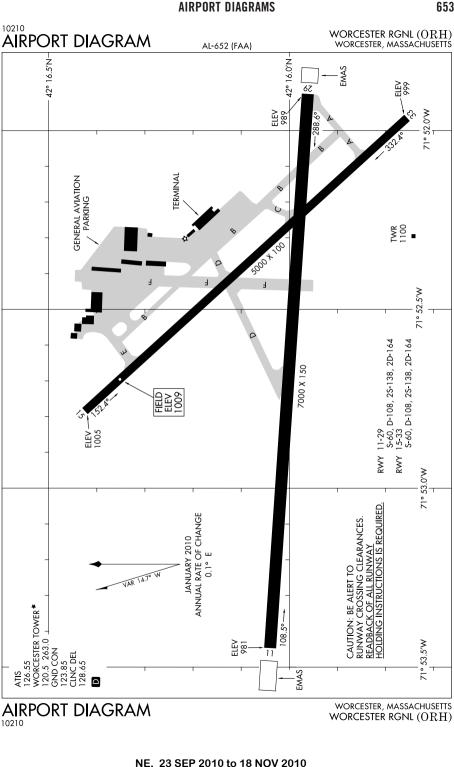


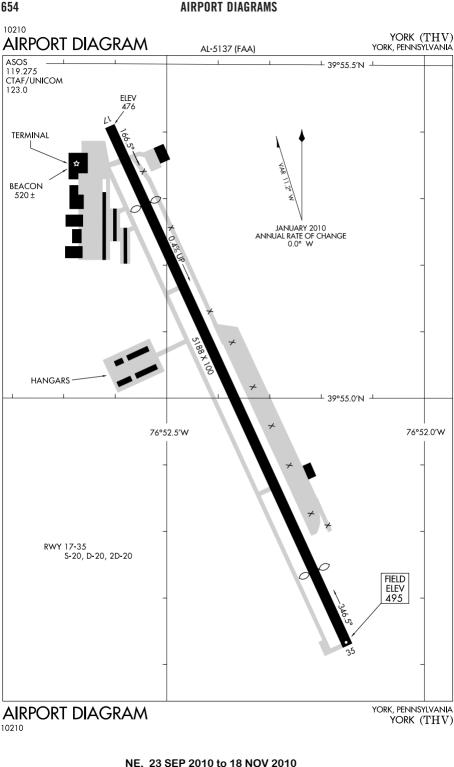












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NATIONAL WEATHER SERVICE (NWS) UPPER AIR OBSERVING STATION (UAOS) AND WEATHER RADAR NETWORK



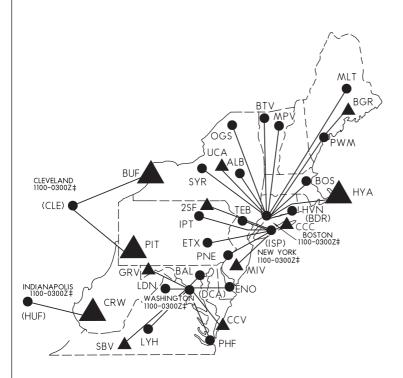
LEGEND

- Δ AVIATION WEATHER SERVICE (MILITARY)
- ▲ AIR TRAFFIC CONTROL RADAR
- ★ UPPER AIR OBSERVING STATION/RADAR
- RADAR ONLY
- UAOS-BALLOON RELEASE AROUND 1100 UTC AND 2300 UTC DAILY
- O OTHER NWS UPPER AIR STATIONS-BALLOON RELEASE TIMES ARE FLEXIBLE BUT GENERALLY AROUND SUNRISE AND/OR EARLY AFTERNOON

NOTE: FOR RELEASES LATER THAN 1130 UTC AND 2330 UTC, AND
FOR SPECIAL RELEASES AT OTHER THAN THE SCHEDULED
HOURS, AN AERONAUTICAL INFORMATION MESSAGE WILL BE FILED.

ENROUTE FLIGHT ADVISORY SERVICE (EFAS)

See Aeronautical Information Manual (AIM) for available services



BOSTON EFAS HIGH ALTITUDE FREQUENCY 133.925 ATLANTA EFAS HIGH ALTITUDE FREQUENCY 135.475 CLEVELAND EFAS HIGH ALTITUDE FREQUENCY 135.425 INDIANAPOLIS EFAS HIGH ALTITUDE FREQUENCY 134.825 WASHINGTON EFAS HIGH ALTITUDE FREQUENCY 134.525 NEW YORK EFAS HIGH ALTITUDE FREQUENCY 134.725

LOW ALTITUDE COMMUNICATIONS OUTLET (122.0)

HIGH ALTITUDE COMMUNICATIONS OUTLET

BOTH LOW AND HIGH ALTITUDE COMMUNICATIONS OUTLET